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BULLETIN No. 130-72

HYDROLOGIC DATA: 1972

Volume IV: SAN JOAQUIN VALLEY

AUGUST 1973

NORMAN B. LIVERMORE, JR.
Secretary for Resources
The Resources Agency

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

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The Resources Agency

Department of Water Resources

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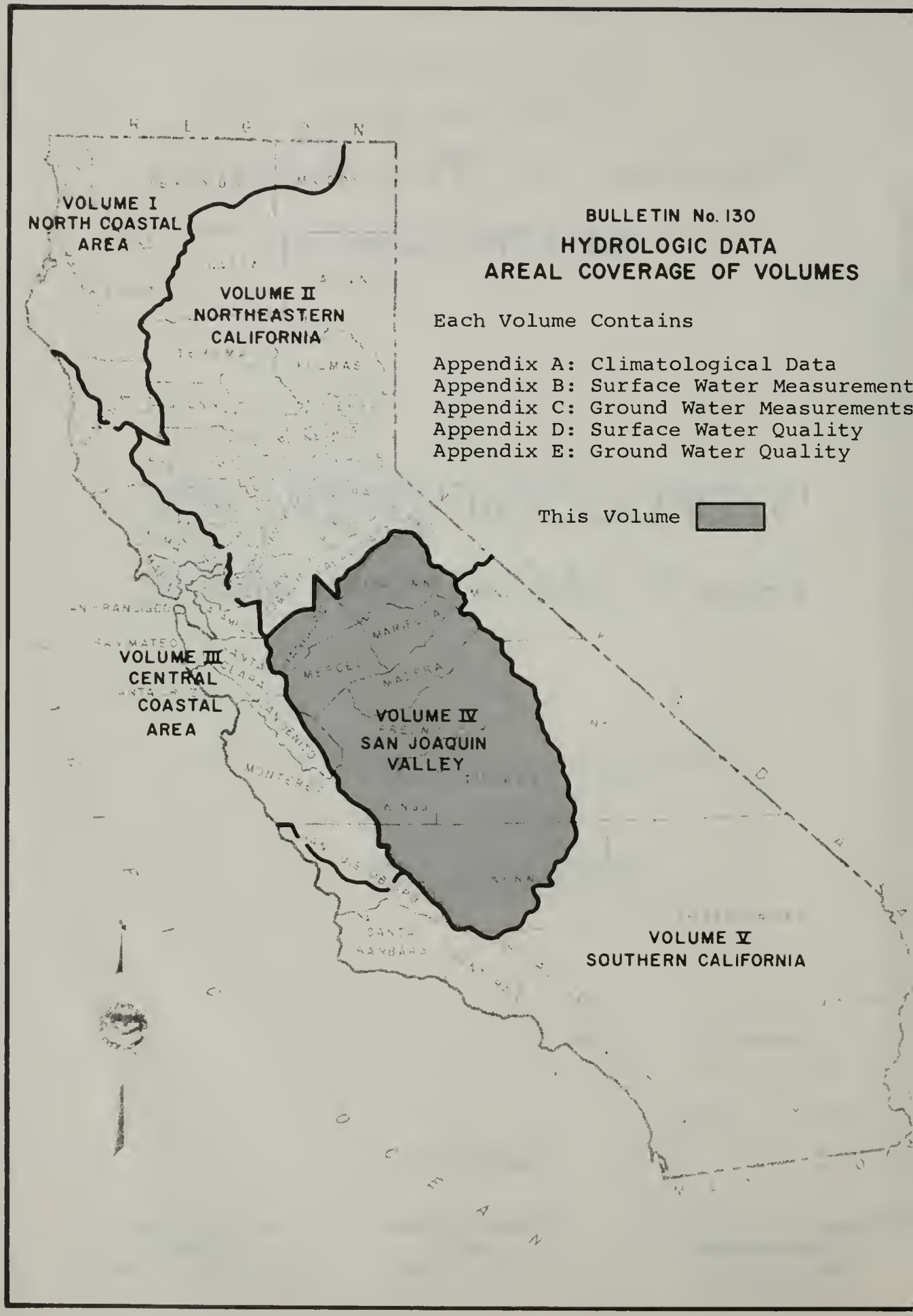
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Director
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VOLUME I
NORTH COASTAL
AREA
VOLUME II
NORTHEASTERN
CALIFORNIA
VOLUME III
CENTRAL
COASTAL
AREA
VOLUME IV
SAN JOAQUIN
VALLEY
VOLUME V
SOUTHERN CALIFORNIA
BULLETIN No. 130
HYDROLOGIC DATA
AREAL COVERAGE OF VOLUMES
Each Volume Contains
Appendix A: Climatological Data
Appendix B: Surface Water Measurement
Appendix C: Ground Water Measurements
Appendix D: Surface Water Quality
Appendix E: Ground Water Quality
This Volume

FOREWORD

The data collection programs of the Department of Water Resources have been designed to supplement the activities of other agencies to satisfy specific needs of the State. Bulletin No. 130-72 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for monitoring environmental conditions as well as effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map to the left.

William R. Gianelli

William R. Gianelli, Director
Department of Water Resources
State of California
July 24, 1973

METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT	
Inch (in)	2.54	Centimeters
Foot (ft)	0.3048	Meter
Mile (mi)	1.609	Kilometers
Acre	0.405	Hectare
Square mile (sq. mi.)	2.590	Square kilometer
U. S. gallon (gal)	3.785	Liters
Acre-foot (acre-ft)	1,233.5	Cubic meters
U. S. gallon per minute (gpm)	0.0631	Liters per second
Cubic feet per second (cfs)	1.699	Cubic meters per minute
1 part per million (ppm)	Milligram per liter (mg/l)	
1 part per billion (ppb)	Microgram per liter (ug/l)	
1 part per trillion (ppt)	Nanogram per liter (ng/l)	
1 equivalent per million (epm)	Milliequivalent per liter (me/l)	
Degrees Fahrenheit (°F)	Degrees Celsius (°C) = (°F-32°)5/9	

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(Bound at end of volume)

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1 Ground Water Areas and Selected Observation Wells

2 Map of Selected Ground Water Areas in San Joaquin Valley and Profiles Along Section A-A' Showing Ground Water Levels in 1921, 1951 and 1972

3 Lines of Equal Elevation of Water in Wells, San Joaquin Valley, Spring 1972

NOTE: Appendix F, "Waste Water Data", which appeared in certain volumes of Bulletin No. 130 series, has been discontinued. For information regarding waste water, the reader is referred to the recently reactivated Bulletin No. 68 series: "Inventory of Waste Water Production and Waste Water Reclamation Practices in California".

Please note the data presented in Bulletin No. 68 are on a calendar year basis rather than a water year basis as is the case in Bulletin No. 130.

State of California
The Resources Agency
Department of Water Resources

RONALD REAGAN, Governor, State of California
NORMAN B. LIVERMORE, JR, Secretary for Resources
WILLIAM R. GIANELLI, Director, Department of Water Resources

This report prepared under the direction of
JOHN R. TEERINK, Deputy Director

by the

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Environmental Quality Branch
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Kern County Water Agency

Kern County Canal and Water Company

Buena Vista Water Storage District

Modesto Irrigation District

Turlock Irrigation District

Oakdale Irrigation District

Merced Irrigation District

Fresno Irrigation District

Kings River Water Association

Central California Irrigation District

Tule River Association

Fresno County Health Department

Kern County Health Department

Tulare County Health Department

Kern County Parks and Recreation Department

ABSTRACT

Report contains tables showing data on climate, surface water flow, ground water levels, and surface and ground water quality in the San Joaquin Valley for the 1971-72 water year. Figures show location of climatological, surface water, and surface water quality measurement stations; fluctuation of water levels in selected wells and areas; and electrical conductance at selected stations. Plates show lines of equal elevation of water in wells, spring 1972; profile of ground water levels; ground water areas; and well locations.

APPENDIX A

CLIMATOLOGICAL DATA

INTRODUCTION

This appendix summarizes monthly precipitation data in the San Joaquin Valley from July 1, 1971 to September 30, 1972 for stations which are not published by the National Weather Service. Also presented are annual precipitation values from 36 storage gages.

Figure A-1 shows the general location of all climatological observation stations in the San Joaquin Valley for which data are available in department files or files of the National Weather Service.

Table A-1 presents an explanation of column headings and code symbols used, and an index of climatological stations as shown on Figure A-1.

Table A-2 presents monthly precipitation data on 154 of the stations shown in the index.

Table A-3 presents storage gage precipitation data.

Precipitation data for stations shown in the index as still active and not published in this appendix are either published by the National Weather Service, or were not available at time of this publication.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits denote the alphabetical sequence of the station.

HYDROGRAPHIC AREA B

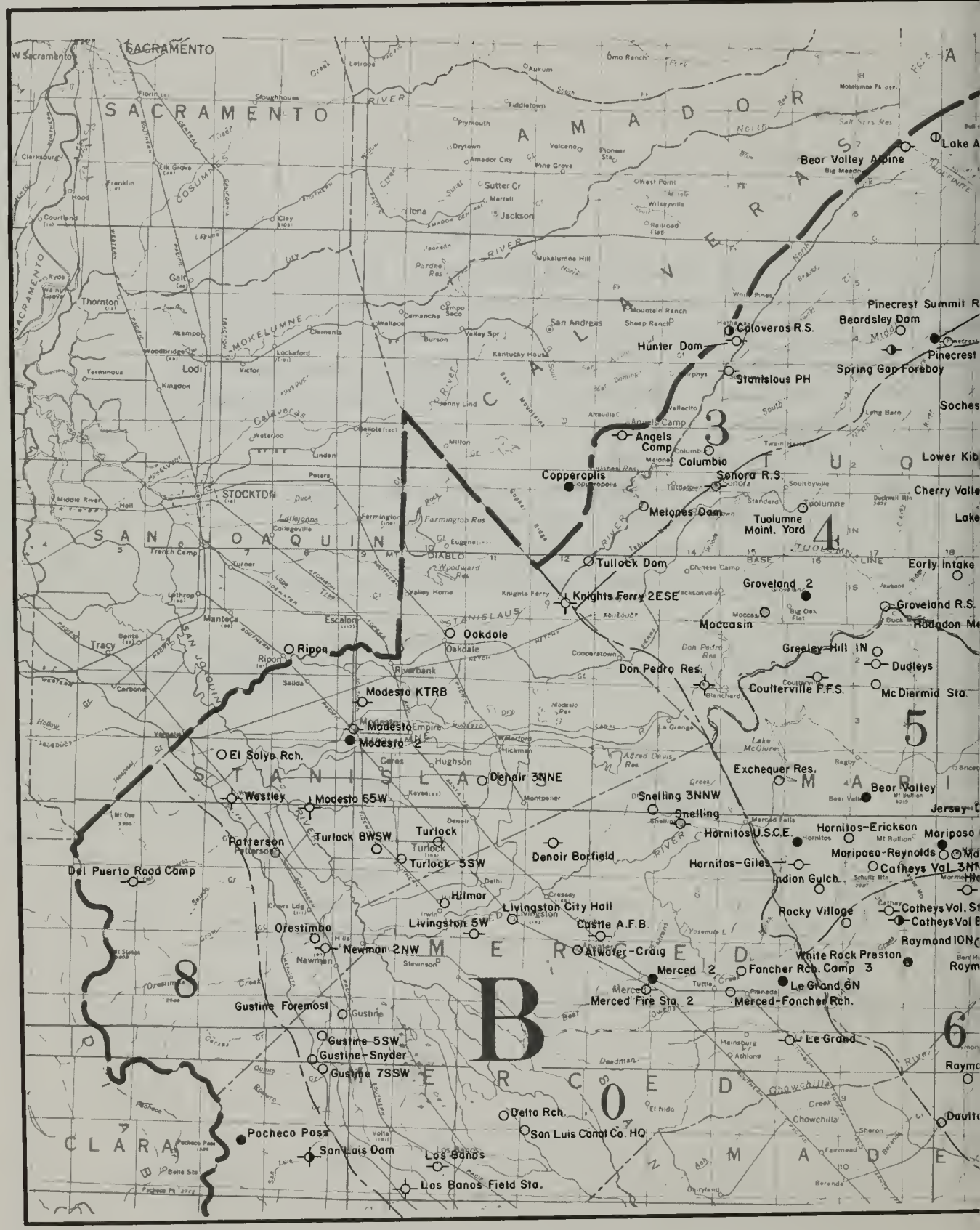
SAN JOAQUIN RIVER BASIN

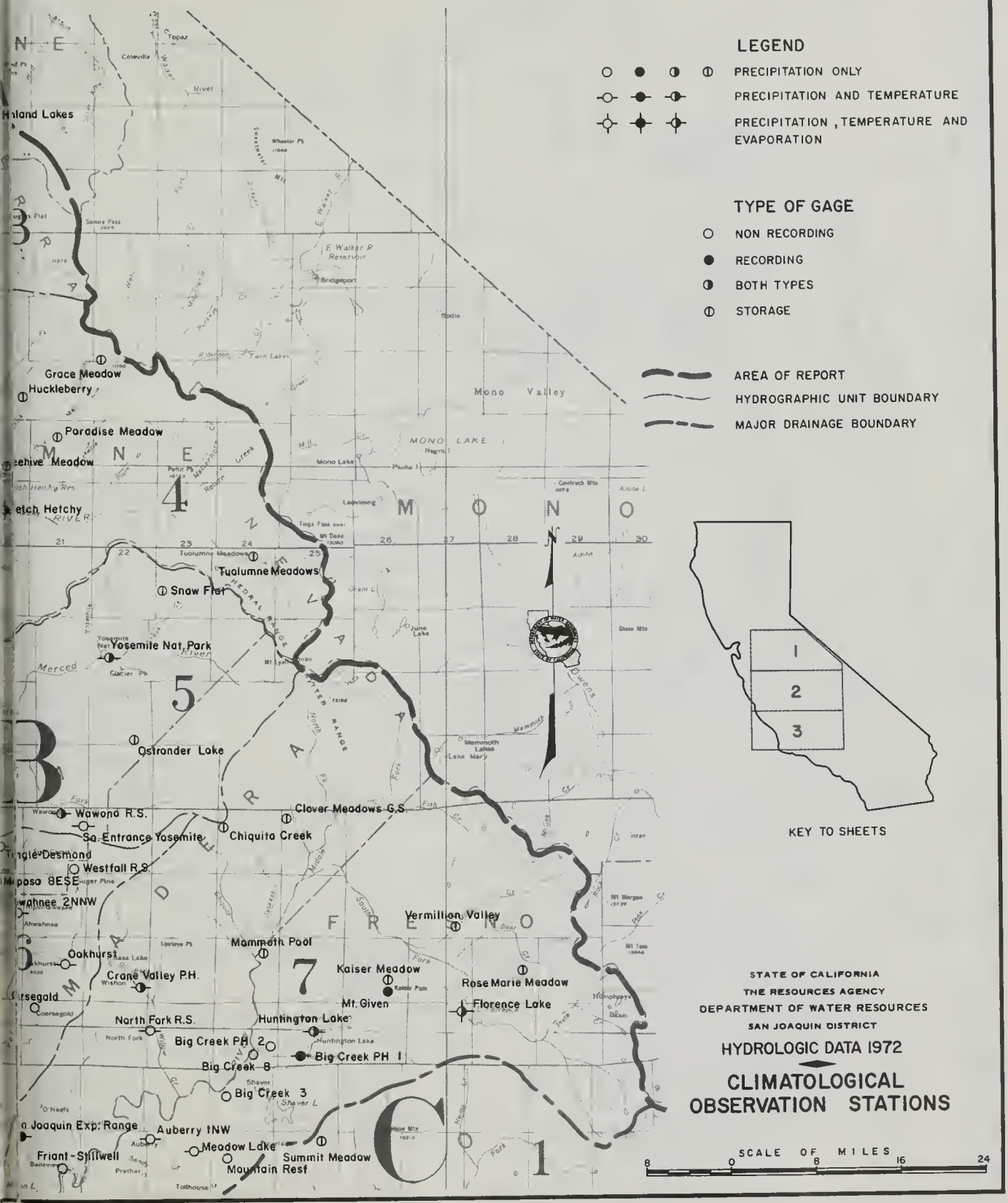
B0 - San Joaquin Valley Floor
B3 - Stanislaus River
B4 - Tuolumne River
B5 - Merced River
B6 - Fresno-Chowchilla Rivers
B7 - San Joaquin River
B8 - San Joaquin Valley on West Side

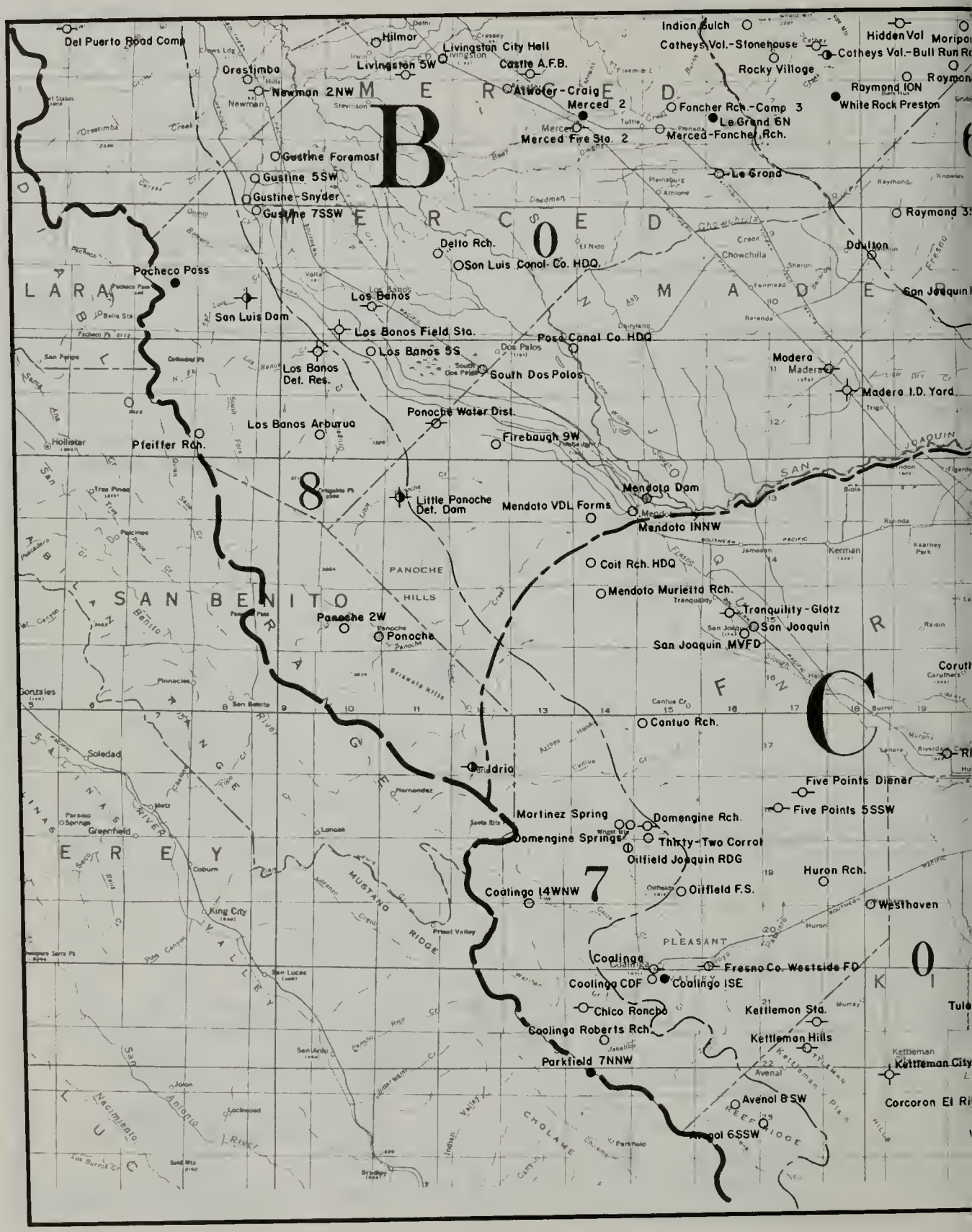
HYDROGRAPHIC AREA C

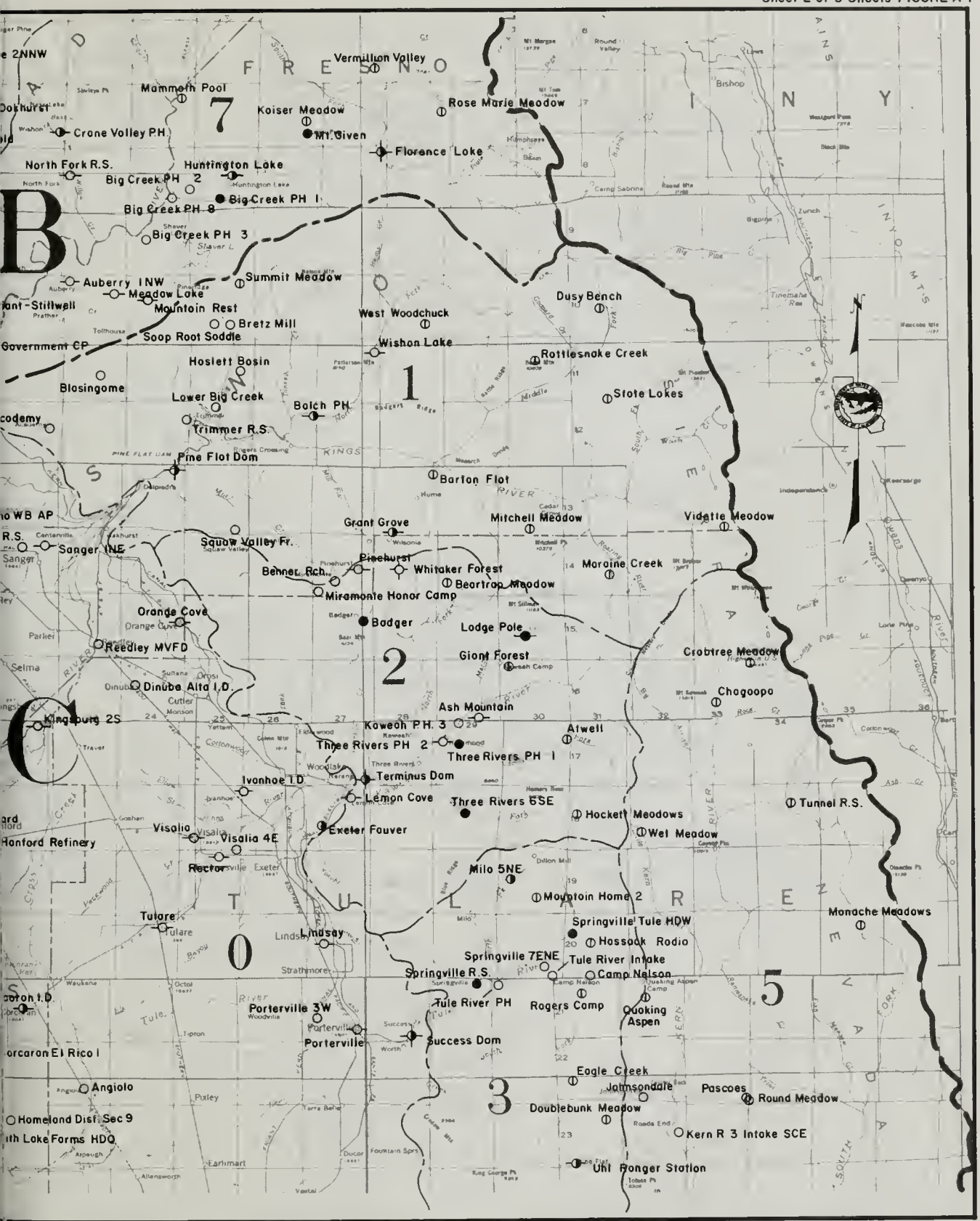
TULARE LAKE DRAINAGE BASIN

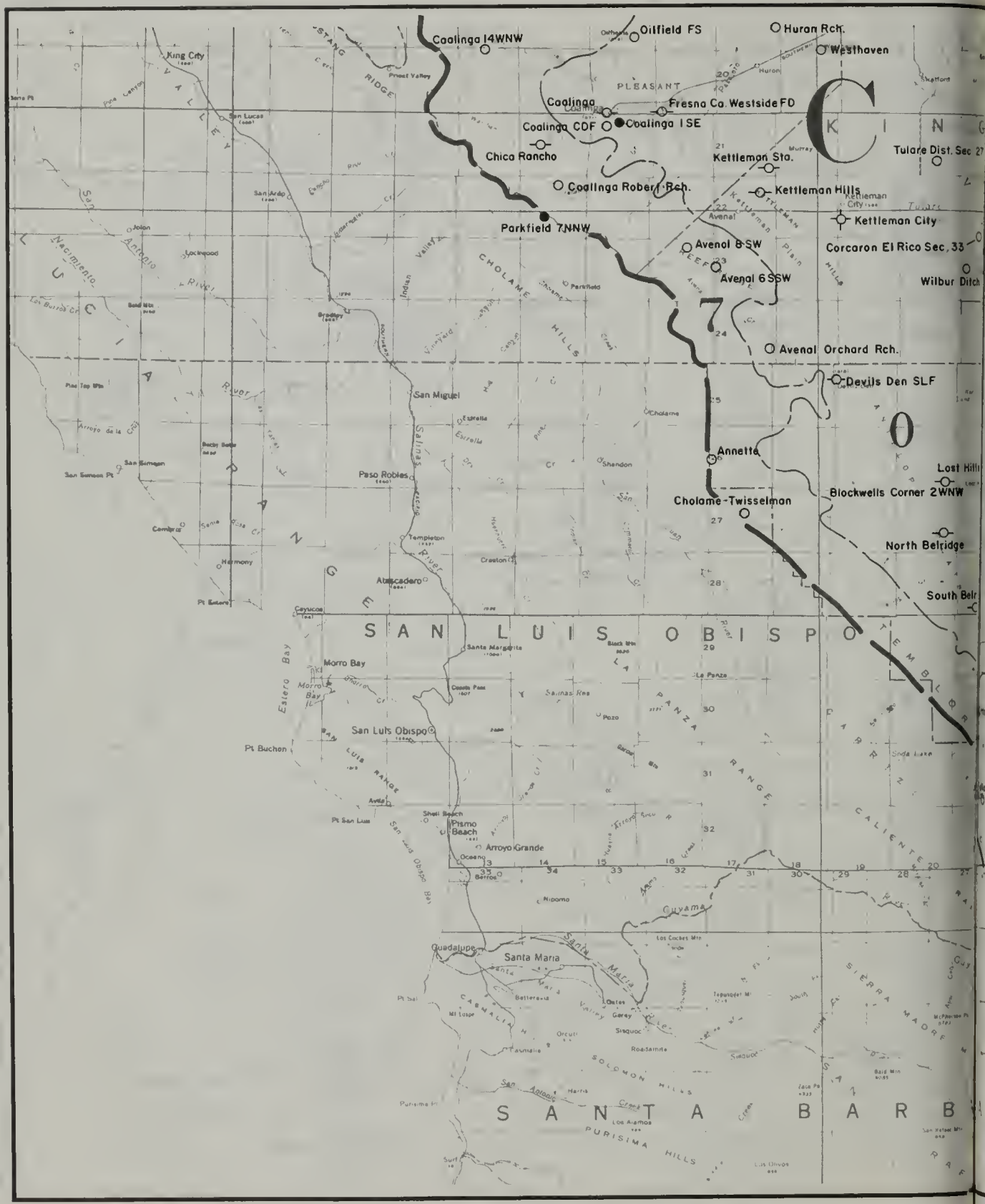
C0 - Tulare Lake Valley Floor
C1 - Kings River
C2 - Kaweah River
C3 - Tule River
C4 - Greenhorn Mountains
C5 - Kern River
C6 - Tehachapi Mountains
C7 - Tulare Lake Basin on West Side


SACRAMENTO
SAN JOAQUIN
STANISLAUS
AMADOR
CALAVERAS
TUOLUMNE
MARIPOSA
MERCED
CLARA
SAN BENITO
MADERA
Lake Amador
Beor Valley Alpine
Pinecrest Summit R
Beordsley Dam
Coloveros R.S.
Hunter Dam
Pinecrest
Spring Gap Foreboy
Stanislaus PH
Soches
Angels Camp
Angels Comp
Columbio
Lower Kib
Copperopolis
Sonora R.S.
Cherry Valle
Melones Dam
Tuolumne Maint. Yard
Lake
Tullock Dam
Early Intake
Groveland 2
Knights Ferry 2ESE
Groveland R.S.
Moccasin
Hoadon Me
Oakdale
Ripon
Greeley Hill 1N
Dudleys
Don Pedro Res.
Coulterville F.F.S.
McDiermid Sta.
Modesto KTRB
Modesto Empire
Modesto 2
El Solyo Rch.
Exchequer Res.
Beor Valley
Denair 3NNE
Westley
Modesto 65W
Snelling 3NNW
Snelling
Jersey
Hornitos U.S.C.E.
Hornitos-Erickson
Mariposo
Turlock
Turlock BWSW
Patterson
Denoir Borfield
Moripoeo-Reynolds
Hornitos-Giles
Catheys Val. 3NN
Del Puerto Road Camp
Turlock 5SW
Indian Gulch
Hilmor
Livingston City Holl
Rocky Villoge
Catheys Vol. St
Orestimbo
Livingston 5W
Castle A.F.B.
Catheys Vol E
Newman 2NW
Atwater-Craig
Raymond ION
White Rock Preston
Merced 2
Fancher Rch. Camp 3
Le Grand 6N
Merced Fire Sta. 2
Merced-Fancher Rch.
Gustine Foremost
Gustine 5SW
Gustine-Snyder
Le Grand
Gustine 7SSW
Delto Rch.
San Luis Canal Co. HQ
Pacheco Poss
San Luis Dam
Los Banos
Los Banos Field Sta.


LEGEND
PRECIPITATION ONLY
PRECIPITATION AND TEMPERATURE
PRECIPITATION , TEMPERATURE AND EVAPORATION
TYPE OF GAGE
NON RECORDING
RECORDING
BOTH TYPES
STORAGE
AREA OF REPORT
HYDROGRAPHIC UNIT BOUNDARY
MAJOR DRAINAGE BOUNDARY
KEY TO SHEETS
1
2
3
Grace Meadow
Huckleberry
Paradise Meadow
Tuolumne Meadows
Snaw Flat
Yosemite Nat. Park
Ostrander Lake
Wawona R.S.
So. Entrance Yosemite
Westfall R.S.
Clover Meadows G.S.
Chiquita Creek
Vermilion Valley
Mammoth Pool
Oakhurst
Crane Valley P.H.
Kaiser Meadow
Rose Marie Meadow
Mt. Given
Florence Lake
North Fork R.S.
Huntington Lake
Big Creek PH 2
Big Creek PH 1
Big Creek 8
Big Creek 3
Auberry tNW
Meadow Lake
Summit Meadow
Mountain Resf
Friant-Skillwell
Mono Valley
MONO LAKE
Mono Lake
June Lake
Mammoth Lakes
Lake Mary
Owens
Merced
Yosemite
Tioga Pass over
Lee Vining
Adobe L
Crowley Res
Bridgeport
F. Walker R Reservoir
Topaz
Coleville
Twin Lakes
Hetch Hetchy Res
Hetch Hetchy
RIVER
Grant L
Wawona
Glacier Pt
Yosemite Nat Park
Tioga Pass over
Elev 9941
Tuolumne Meadows
Lembert Dome
Mt Lyell
Mt Dana
Mt Gibbs
Mt Morgan
Mt Tom
Mt Warren
Mt Humphreys
Bishop Pass
Bear Cr
Fish Cr
Middle Fork
North Fork
South Fork
Chiquito
Mono
Bear
Pine
Oakhurst
Sugar Pine
Ahwahnee
Wishon
Coarsegold
Auberry
Prather
Tollhouse
Shaver L
Huntington Lake
Kaiser Peak
Humphreys
Bishop
Bilsen
Sierra Nevada
Mountains
Range
Divide
Ridge
Valley
Creek
River
Reservoir
Lake
Pk
Mt
Res
Sta
Meadow
Meadows
Flat
Hill
Canyon
Gap
Pass
Basin
Forks
Junction
Hetch Hetchy
Yosemite
Merced
Mono
Fresno
Madera
Tuolumne
Mariposa
Inyo
Alpine
Tioga
Sonora
Ebbetts
Donner
Truckee
Lassen
Plumas
Sierra
Nevada
Placer
El Dorado
Amador
Calaveras
Tuolumne
Stanislaus
Mariposa
Madera
Fresno
Kings
Tulare
Kern
Inyo
Mono
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1972
CLIMATOLOGICAL OBSERVATION STATIONS
SCALE OF MILES
8 0 8 16 24


Del Puerto Road Comp
Hilmor
Livingston City Hall
Livingston 5W
Castle A.F.B.
Orestimba
Newman 2NW
Newman
Atwater-Craig
Merced 2
Merced Fire Sta. 2
Fancher Rch.-Camp 3
Le Grand 6N
Merced-Fancher Rch.
Indian Gulch
Cotheys Vol.-Stonehouse
Rocky Villoge
Hidden Vol
Cotheys Vol.-Bull Run
Raymond ION
White Rock Preston
Gustine Foremost
Gustine 5SW
Gustine-Snyder
Gustine 7SSW
Le Grand
Raymond 3
Delta Rch.
San Luis Canal Co. HDQ.
Chowchilla
Dalton
Pacheco Pass
Los Banos
San Luis Dam
Los Banos Field Sta.
Los Banos 5S
Los Banos Det. Res.
Poso Canal Co. HDQ.
South Dos Palos
Madera
Madera I.D. Yard
Ponoche Water Dist.
Los Banos Arburua
Firebaugh 9W
Pfeiffer Rch.
Little Panoche Det. Dam
Mendota VDL Forms
Mendota Dam
Mendota 1NNW
Coit Rch. HDQ
Mendota Murietta Rch.
Tranquility-Glotz
San Joaquin
San Joaquin MVFD
Panoche 2W
Ponoche
Cantua Rch.
Soledad
Five Points Diener
Five Points 5SSW
Mortinez Spring
Domengine Rch.
Domengine Springs
Thirty-Two Corral
Oilfield Joaquin RDG
Huron Rch.
Coalinga 14WNW
Oilfield F.S.
Westhaven
Coalinga
Fresno Co. Westside FD
Coalinga CDF
Coalinga ISE
Chico Rancho
Kettleman Sta.
Coalinga Roberts Rch.
Kettleman Hills
Parkfield 7NNW
Avenal
Avenal 8SW
Kettleman City
Corcoran
BENICIA-CODEMADERA
LARAMIE
SAN BENITO
PANOCHE HILLS
SAN JOAQUIN VALLEY
SALINAS VALLEY
MUSTANG RIDGE
PLEASANT VALLEY
CHOLAME
REEF RIDGE
KETTLEMAN PLAIN
8
7


Vermillion Valley
Mammoth Pool
Koiser Meadow
Rose Marie Meadow
Crane Valley PH
Mt. Given
Florence Lake
North Fork R.S.
Huntington Lake
Big Creek PH 2
Big Creek PH 1
Big Creek PH 8
Big Creek PH 3
Auberry INW
Summit Meadow
Meadow Lake
Mountain Rest
Bretz Mill
Soop Root Soddle
Government CP
West Woodchuck
Wishon Lake
Dusy Bench
Rattlesnake Creek
Hoslett Basin
Blasingome
Lower Big Creek
Balch PH
Trimmer R.S.
Pine Flot Dom
Stote Lakes
Barton Flot
Grant Grove
Mitchell Meadow
Vidette Meadow
Squaw Valley Fr.
Sanger INE
Pinehurst
Benner Rch.
Whitaker Forest
Beartrap Meadow
Moraine Creek
Miramonte Honor Camp
Orange Cove
Badger
Lodge Pole
Reedley MVFD
Giant Forest
Crabtree Meadow
Dinuba Alta I.D.
Chagoopo
Kingsburg 2S
Ash Mountain
Atwell
Koweah PH 3
Three Rivers PH 2
Three Rivers PH 1
Terminus Dam
Ivanhoe I.D.
Lemon Cove
Three Rivers 6SE
Tunnel R.S.
Hockett Meadows
Visalia
Visalia 4E
Exeter Fouver
Wet Meadow
Honford Refinery
Rector
Milo 5NE
Mountain Home 2
Tulare
Springville Tule HDW
Monache Meadows
Lindsay
Hossack Rodio
Springville 7ENE
Tule River Intake
Springville R.S.
Camp Nelson
Porterville 3W
Tule River PH
Rogers Camp
Quaking Aspen
Porterville
Success Dam
Eagle Creek
Angiolo
Johnsondale
Pascoes
Round Meadow
Doublebunk Meadow
Homeland Dist. Sec 9
Kern R 3 Intake SCE
Uhl Ranger Station
FRESNO
TULARE
INYO
KINGS


Coalinga 14WNW
Oilfield FS
Huron Rch.
Westhaven
King City
PLEASANT
Coalinga
Fresno Co. Westside FD
Coalinga CDF
Coalinga 1SE
Chico Rancho
Kettleman Sta.
Tulare Dist. Sec 27
Coalinga Robert Rch.
Kettleman Hills
Kettleman City
Parkfield 7NNW
Avenal 8SW
Corcoran El Rico Sec. 33
Avenal 6SSW
Wilbur Ditch
Avenal Orchard Rch.
Devils Den SLF
San Miguel
Annette
Paso Robles
Blockwells Corner 2WNW
Cholame-Twisselman
North Belridge
South Belr
SAN LUIS OBISPO
Morro Bay
San Luis Obispo
Pt Buchon
Pt San Luis
Prismo Beach
Arroyo Grande
Nipomo
Guadalupe
Santa Maria
SANTA BARB
PURISIMA HILLS
SOLOMON HILLS
SIERRA MADRE

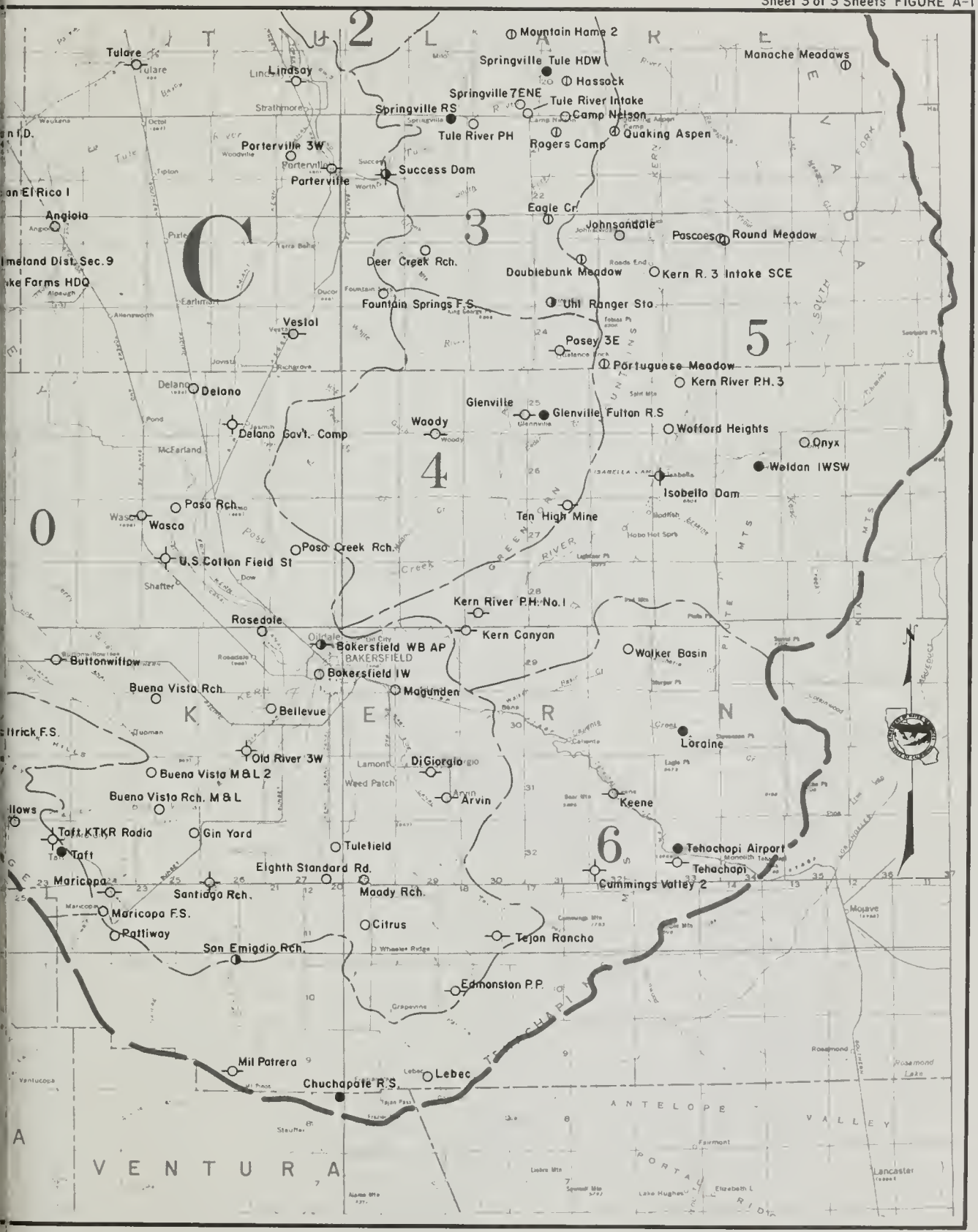

Mountain Home 2
Springville Tule HDW
Hassock
Springville 7ENE
Tule River Intake
Springville RS
Camp Nelson
Tule River PH
Rogers Camp
Quaking Aspen
Manache Meadows
Porterville 3W
Porterville
Success Dam
Eagle Cr
Johnsondale
Pascoes
Round Meadow
Deer Creek Rch.
Doublebunk Meadow
Kern R. 3 Intake SCE
Fountain Springs F.S.
Uhl Ranger Sta.
Vestal
Posey 3E
Portuguese Meadow
Kern River P.H. 3
Delano
Glenville
Glenville Fulton R.S
Delano Gov't. Camp
Woody
Wofford Heights
Onyx
Weldon IWSW
Isobella Dam
Paso Rch.
Wasco
Ten High Mine
Poso Creek Rch.
U.S. Cotton Field St
Kern River P.H. No. 1
Rosedale
Kern Canyon
Bakersfield WB AP
BAKERSFIELD
Walker Basin
Buttonwillow
Bakersfield IW
Buena Vista Rch.
Magunden
Bellevue
Loraine
Old River 3W
DiGiorgio
Buena Vista M&L 2
Buena Vista Rch. M&L
Arvin
Keene
Taft KTKR Radio
Gin Yard
Tuleield
Tehachapi Airport
Taft
Eighth Standard Rd.
Tehachapi
Maricopa
Santiago Rch.
Maody Rch.
Cummings Valley 2
Maricopa F.S.
Pattiway
Citrus
Tejon Rancho
San Emigdio Rch.
Edmonston P.P.
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Lebec
Chuchapate R.S.
TEHACHAPI
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Ducor
Richgrove
Weedpatch
Lamont
Arvin
Oildale
Greenfield
Rosamond Lake
Fairmont
Stauffer
Ventucopa
Alamo Mtn
Squaw Mtn
Liebre Mtn
Tejon Mtn
Pine Mtn
Grapevine
Caliente
Bear Mtn
Double Mtn
Tehachapi Mtn
Cummings Mtn
Monolith
Edwards AFB
Air Force Flight Test Center
N
1
2
3
4
5
6
C
E
K
R
N
T
U
L
A
R
E
0

TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS

An explanation of the column headings and code symbols used in connection with this table follows:

40-Acre Tract. This denotes the location of the station within the section in which it is located. The letter code is derived from the following diagram:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian. The code for this column is as follows:

M - Mount Diablo Base and Meridian

S - San Bernardino Base and Meridian

Cooperators' Numbers. These numbers are assigned from the following list:

000 -	Private Cooperators
001 - 399	Private Agencies
001	Kern County Land Company
002	Boswell Company
003	P. G. and E. Company
004	Southern California Edison Company
005	California Electric Power Company
010	Amateur Radio Weather Network KTRB
011	Southern Pacific Company
012	Miller and Lux, Inc.
013	Central California Irrigation District
400 - 799	Counties and municipalities
401	Hetch Hetchy Water Supply
404	Oakdale Irrigation District
405	City of Los Angeles, Department of Water & Power
420	Stanislaus County
800 - 899	State
801	Pomology Department, University of California, Davis
804	Division of Beaches and Parks
805	State Department of Fish and Game
806	Department of Water Resources
808	Division of Forestry
809	Division of Highways

TABLE A-1 (Continued)

814	University of California, Davis, Westside Field Station
815	University of California, School of Forestry
900 - 999	Federal
900	National Weather Service
902	U. S. Air Force, Air Weather Service
903	U. S. Army Corps of Engineers
904	U. S. Bureau of Reclamation
905	U. S. Forest Service
906	U. S. Department of Agriculture, Agricultural Research Service
907	National Weather Service (State Climatologist)
916	U. S. Geological Survey

Cooperators' (Coop) Index Numbers. These are the numbers assigned to the stations by the agenci responsible for handling the station records. With few exceptions, the alpha order numbers assigned to th National Weather Service stations are the same as those used by the National Weather Service. The Nationa Weather Service station number is shown in this column only when it differs from the alpha order number.

Record Began. This is shown to year only.

Record Ended. If record continues this column is left blank.

Years Missing. This denotes missing record to the nearest full year.

County Code. Numbers used to designate specific counties are listed below:

Alpine	02
Calaveras	05
Fresno	10
Inyo	14
Kern	15
Kings	16
Madera	20
Mariposa	22
Merced	24
San Benito	35
San Joaquin	39
San Luis Obispo	40
Stanislaus	50
Tulare	54
Tuolumne	55
Ventura	56

TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude °	Latitude '	Latitude "	Longitude °	Longitude '	Longitude "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
C1 0009	ACADEMY	545	SEC 14	T12S	R22E	P	M	36	52	58	119	32	25	000		1958	1970		10
B6 0049	AHWAHNEE 2 NNW	2680	SEC 24	T06S	R20E		M	37	23	22	119	44	07	907		1959			20
C0 0204	ANGIOLA	205	SEC 27	T22S	R23E	D	M	35	59	25	119	28	42	900		1899			54
B3 0209	ANGELS CAMP	1535	SEC 34	T03N	R13E	E	M	38	04	20	120	32	18	003		1908			05
C7 0215	ANNETTE	2140	SEC 19	T26S	R17E	R	M	35	38	48	120	10	12	000		1952			15
C0 0332	ARVIN	445	SEC 23	T31S	R29E		M	35	12	00	118	49	00	000		1936			15
C2 0343	ASH MOUNTAIN	1708	SEC 34	T16S	R29E	L	M	36	29	30	118	49	35	900		1925			54
B0 0373-80	ATWATER CRAIG	150	SEC 02	T07S	R12E		M	37	21		120	37		000		1961	1969		24
C2 0374	ATWELL	6400	SEC 12	T17S	R30E		M	36	28	00	118	40	00	900		1948			54
B7 0379	AUBERRY 1 NW	2010	SEC 06	T10S	R23E	A	M	37	05	40	119	29	50	900		1915			10
C0 0399	AVENAL ORCHARD RCH	712	SEC 25	T24S	R17E	P	M	35	48	23	120	05	18	000		1919			16
C7 0399-01	AVENAL 8 SW	1424	SEC 03	T23S	R16E	G	M	35	57	33	120	13	25	000		1957			16
C7 0399-02	AVENAL 6 SSW	1565	SEC 18	T23S	R17E	K	M	35	55	30	120	10	05	000		1953			16
C2 0422	BADGER	3030	SEC 11	T15S	R27E	P	M	36	37	53	119	00	46	900		1940			54
C0 0440	BAKERSFIELD 1 W	400	SEC 26	T29S	R27E	H	M	35	22	41	119	02	17	900		1913	1969		15
C0 0442	BAKERSFIELD WB AP	494	SEC 02	T29S	R27E	Q	M	35	25	38	119	02	34	900		1933			15
C1 0449	BALCH POWERHOUSE	1720	SEC 12	T12S	R26E	B	M	36	54	33	119	05	15	900		1921			10
C1 0534	BARTON FLAT	3760	SEC 01	T13S	R28E		M	36	49		118	53		900		1961			10
B3 0569-60	BEAR VALLEY ALPINE	7100	SEC 18	T07N	R18E	E	M	38	27	45	120	02	30	000		1967			02
B5 0570-80	BEAR VALLEY	2600	SEC 20	T04S	R17E		M	37	34		120	07		903		1960			22
B3 0573	BEARDSLEY DAM	3164	SEC 14	T04N	R17E		M	38	12	12	120	04	30	404		1959			55
C2 0596	BEARTRAP MEADOW	6800	SEC 29	T14S	R29E		M	36	41	00	118	52	00	900		1959			54
B4 0617	BEEHIVE MEADOW	6500	SEC 28	T02N	R20E		M	38	00	00	119	47	00	900		1947	1971		55
C0 0631	BELLEVUE	369	SEC 07	T30S	R27E	B	M	35	20	11	119	05	27	001		1961	1969		15
C1 0676	BENNER RANCH	3525	SEC 27	T14S	R27E	C	M	36	41	05	119	01	50	000		1967			10
B7 0755	BIG CREEK PH 1	4930	SEC 28	T08S	R25E	J	M	37	12	15	119	14	20	900		1915			10
B7 0755-01	BIG CREEK PH 2	3000	SEC 25	T08S	R24E	N	M	37	11	59	119	18	19	004		1913			10
B7 0755-02	BIG CREEK PH 3	1400	SEC 17	T09S	R24E	E	M	37	08	54	119	23	00	004		1922			10
B7 0755-05	BIG CREEK PH 8	2260	SEC 27	T08S	R24E	G	M	37	12	00	119	20	00	004		1921			10
C0 0875	BLACKWELLS CORNER 2 WNW	710	SEC 35	T26S	R19E	L	M	35	37	15	119	53	40	900		1944		13	15
C1 0880-80	BLASINGAME	1050	SEC 22	T11S	R23E		M	36	57	37	119	26	45	808		1961			10
C1 1069-11	BRETZ MILL	3250	SEC 27	T10S	R25E	D	M	37	02	18	119	14	24	905		1960			10
C0 1174	BUENA VISTA RCH	310	SEC 04	T30S	R25E	R	M	35	21	00	119	19	00	001		1944	1969		15
C0 1175	BUENA VISTA RCH M&L	290	SEC 28	T31S	R26E	N	M	35	11	42	119	11	43	002		1955			15
C0 1175-80	BUENA VISTA RCH M&L 2	290	SEC 08	T31S	R25E	R	M	35	14	25	119	18	23	002		1962			15
C0 1244	BUTTONWILLOW	270	SEC 24	T29S	R23E	K	M	35	24	00	119	28	00	900		1940			15
B3 1280	CALAVERAS RANGER STA	3343	SEC 18	T04N	R15E	L	M	38	11	50	120	21	55	900		1944			05
C3 1425	CAMP NELSON	4560	SEC 32	T20S	R31E	R	M	36	08	17	118	37	36	000		1959	1970		54
C0 1490	CANTUA RANCH	295	SEC 06	T17S	R15E	N	M	36	28	35	120	23	20	000		1955			10
C0 1557	CARUTHERS 4 E	265	SEC 14	T16S	R20E	B	M	36	32	48	119	45	30	000		1960	1971		10
B0 1580	CASTLE A F B	170	SEC 32	T06S	R13E	L	M	37	22	03	120	34	20	902		1951			24
B6 1588	CATHEYS VAL BULLRUN R	1425	SEC 34	T06S	R17E	H	M	37	23	56	120	03	08	900		1940			22
B5 1588-03	CATHEYS VALLEY 3 NNW	1250	SEC 28	T05S	R17E	B	M	37	28	33	120	06	33	000		1957			22
B6 1591	CATHEYS VAL STONEHOUSE	1210	SEC 14	T06S	R17E	M	M	37	24	30	120	05	00	000		1951	1970		22
C5 1647	CHAGOOPA	10390		T16S	R33E		M	36	30		118	27		901		1964	1972		54
B4 1697	CHERRY VALLEY DAM	4765	SEC 05	T01N	R19E	L	M	37	58	00	119	55	00	900		1955			55
C7 1716-20	CHICO RANCHO	1350	SEC 20	T21S	R14E	M	M	36	05	13	120	29	22	000		1969			10
B7 1737	CHIQUITO CREEK	7290	SEC 07	T05S	R24E	N	M	37	30	20	119	23	21	900		1961			20
C7 1743-02	CHOLAME TWISSELMAN	1675	SEC 15	T27S	R17E	R	M	35	35	00	120	07	00	000		1951			40
C6 1754	CHUCHAPATE R S	5260	SEC 04	T08N	R20W		S	34	48	00	119	01	00	900		1941			56
C0 1770-80	CITRUS	660	SEC 13	T11N	R20W	M	S	35	02	18	118	58	28	001		1963	1969		15
B7 1844	CLOVER MEADOWS	7002	SEC 06	T05S	R25E		M	37	32		119	17		900		1946	1972		20
C0 1864	COALINGA	671	SEC 32	T20S	R15E	P	M	36	09	00	120	21	00	900		1942			10
C7 1864-02	COALINGA ROBERTS RCH	1350	SEC 03	T22S	R14E	R	M	36	02	18	120	26	40	000		1953			10
C0 1867	COALINGA 1 SE	663	SEC 04	T21S	R15E	J	M	36	07	39	120	20	38	900		1911			10
C7 1869	COALINGA 14 WNW	1640	SEC 33	T19S	R13E		M	36	14	00	120	34	00	900		1949			10
C0 1870-80	COALINGA CDF	690	SEC 05	T21S	R15E	Q	M	36	08	03	120	22	00	808		1961			10
B6 1878	COARSEGOLD	2363	SEC 05	T08S	R21E		M	37	16	00	119	42	00	907		1952			20
C0 1885	COIT RANCH HDQ	278	SEC 20	T14S	R14E	D	M	36	42	20	120	28	25	000		1954			10
B3 1944	COLUMBIA	2150	SEC 11	T02N	R14E	N	M	38	02	22	120	24	37	000		1969			55
B3 2003	COPPEROPOLIS	1000	SEC 34	T02N	R12E	K	M	37	59	00	120	38	00	903		1954		03	05
C0 2012	CORCORAN IRRIG DIST	200	SEC 15	T21S	R22E	P	M	36	05	53	119	34	51	900		1912			16
C0 2013	CORCORAN EL RICO 1	185	SEC 01	T22S	R21E	E	M	36	02	36	119	38	42	002		1958			16
C0 2013-05	CORCORAN EL RICO 33	190	SEC 33	T22S	R21E	Q	M	35	57	49	119	42	14	002		1951	1969		16
B5 2072	COULTERVILLE FFS	1870	SEC 33	T02S	R16E	A	M	37	43	25	120	12	12	808		1959			22
C5 2114	CRABTREE MEADOW	10700	SEC 01	T16S	R33E		M	36	34	00	118	21	00	000		1948			54
B7 2122	CRANE VALLEY PH	3440	SEC 25	T07S	R22E	M	M	37	17	26	119	31	35	003		1903			20
C6 2222-80	CUMMINGS VALLEY 2	3825	SEC 30	T32S	R32E	G	M	35	07		118	35		806		1961			15
B6 2288	DAULTON	410	SEC 26	T09S	R18E	E	M	37	07	18	119	59	00	000		1946			20
C3 2335-10	DEER CREEK RCH	950	SEC 05	T23S	R29E	R	M	35	57	15	118	51	28	000		1968	1969		54

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude ° ' "	Longitude ° ' "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
C0 2346	DELANO	323	SEC 11	T25S	R25E	A	M	35 46 23	119 14 37	900		1876			15
C0 2346-01	DELANO GOV'T CAMP	394	SEC 28	T25S	R26E	E	M	35 48 35	119 11 00	904		1952			15
B8 2369	DEL PUERTO ROAD CAMP	1125	SEC 12	T06S	R05E	Q	M	37 25 24	121 22 42	900		1958			50
B0 2375	DELTA RANCH	90	SEC 26	T09S	R11E		M	37 07 00	120 44 00	013		1949		01	24
B0 2389	DENAIR 3 NNE	137	SEC 20	T04S	R11E		M	37 34	120 47	900		1964			50
B0 2389-20	DENAIR BARFIELD	165	SEC 20	T05S	R12E	E	M	37 29 18	120 40 47	000		1965			24
C0 2408	DEVILS DEN SLF	500	SEC 07	T25S	R19E	M	M	35 45 55	119 58 22	000		1959			15
C0 2436	DIGIORGIO	483	SEC 10	T31S	R29E	B	M	35 15 08	118 51 00	000		1937			15
C0 2440-01	DINUBA ALTA I D	334	SEC 17	T16S	R24E	D	M	36 32 32	119 23 30	000		1944			54
C7 2464	DOMENGINE RCH	1000	SEC 29	T18S	R15E	A	M	36 20 24	120 21 30	000		1959			10
C7 2464-01	DOMENGINE SPRING	1700	SEC 25	T18S	R14E	K	M	36 19 53	120 24 04	000		1958	1970		10
B4 2473	DON PEDRO RESERVOIR	700	SEC 35	T02S	R14E	E	M	37 43 00	120 24 18	904		1940			55
C3 2492	DOUBLEBUNK MEADOW	6200	SEC 11	T23S	R31E		M	35 57 00	118 36 00	900		1955	1970		54
B5 2539	DUDLEYS	3000	SEC 21	T02S	R17E	D	M	37 45 14	120 06 30	900		1909			22
C1 2577	DUSY BENCH	9470		T10S	R31E		M	37 06	118 35	900		1964	1972		10
C3 2591	EAGLE CREEK	6650		T22S	R31E		M	35 59	118 39	903		1964			54
B4 2609	EARLY INTAKE PH	2356	SEC 11	T01S	R18E	C	M	37 52 30	119 57 25	401		1925			55
C0 2752-80	EIGHTH STAND RCH	338	SEC 36	T32S	R27E		M	35 06 05	119 01 45	001		1963	1969		15
B0 2820	EL SOLYO RCH	50	SEC 06	T04S	R07E	B	M	37 37 24	121 14 09	000		1953	1972		50
B0 2860	ESCALON SWANSON	125	SEC 03	T02S	R09E	L	M	37 47 20	121 58 15	000		1944			39
B5 2920	EXCHEQUER RESERVOIR	484	SEC 13	T04S	R15E	L	M	37 35 06	120 16 11	900		1935			22
C0 2922	EXETER FAUVER RCH	439	SEC 20	T18S	R27E	D	M	36 21 28	119 04 45	900		1938			54
B0 2968	FANCHER RCH CAMP 3	225	SEC 16	T07S	R15E	N	M	37 19 04	120 20 04	000		1959			24
C7 3005	FELLOWS	1340	SEC 06	T32S	R23E	C	M	35 10 44	119 32 39	000		1956			15
B0 3063	FIREBAUGH 9 W	185	SEC 26	T12S	R12E	R	M	36 51 04	120 37 03	000		1934	1969		10
C0 3083	FIVE POINTS 5 SSW	276	SEC 17	T18S	R17E	M	M	36 21 48	120 09 22	900		1942			10
C0 3084	FIVE POINTS DIENER	263	SEC 10	T18S	R17E	R	M	36 22 20	120 06 12	000		1933			10
B7 3093	FLORENCE LAKE	7345	SEC 36	T07S	R27E	N	M	37 16 27	118 58 27	900		1940			10
C0 3207	FOUNTAIN SPRINGS R S	800	SEC 26	T23S	R28E	Q	M	35 53 31	118 55 58	808		1965			54
C0 3257	FRESNO WB AP	331	SEC 30	T13S	R21E	J	M	36 46 10	119 43 02	900		1899			10
C0 3258-80	FRESNO CO WESTSIDE FD	600	SEC 31	T20S	R16E	Q	M	36 08 27	120 16 22	806		1963			10
B7 3261	FRIANT GOVERNMENT CP	410	SEC 07	T11S	R21E	A	M	36 59 00	119 43 00	900		1896			10
B7 3261-05	FRIANT STILLWELL	1009	SEC 23	T10S	R21E	B	M	37 03 07	119 38 48	000		1965			20
C2 3397	GIANT FOREST	6412	SEC 06	T16S	R30E	E	M	36 34 05	118 46 01	900		1921			54
C0 3428-01	GIN YARD	295	SEC 12	T32S	R25E	R	M	35 09 12	119 14 10	002		1960			15
C4 3463	GLENNVILLE	3140	SEC 25	T25S	R30E	F	M	35 43 28	118 42 07	900		1951			15
C4 3465	GLENNVILLE FULTON R S	3500	SEC 29	T25S	R31E	H	M	35 44 00	118 40 00	900		1940			15
B4 3529	GRACE MEADOW	8900	SEC 31	T04N	R22E		M	38 09 00	119 36 00	900		1947	1970		55
C1 3551	GRANT GROVE	6580	SEC 32	T13S	R28E	N	M	36 44 29	118 57 40	900		1924			54
B5 3586-05	GREELEY HILL 1 N	3060	SEC 17	T02S	R17E	F	M	37 45 55	120 07 40	000		1965			22
B4 3669	GROVELAND 2	2825	SEC 21	T01S	R16E	E	M	37 50 00	120 14 00	900		1940			55
B4 3672	GROVELAND R S	3135	SEC 27	T01S	R17E	L	M	37 49 00	120 06 00	900		1940			55
B0 3690-02	GUSTINE 5 SW	145	SEC 24	T08S	R08E	F	M	37 13 26	121 02 37	000		1927			24
B0 3690-04	GUSTINE SNYDER	150	SEC 35	T08S	R08E	B	M	37 12 00	121 03 00	000		1930			24
B0 3694	GUSTINE FOREMOST	98	SEC 08	T08S	R09E	B	M	37 15 28	120 59 53	000		1928			24
B0 3698	GUSTINE 7 SSW	156	SEC 01	T09S	R08E	R	M	37 10 25	121 01 54	000		1958			24
C0 3747	HANFORD	242	SEC 26	T18S	R21E	P	M	36 19 43	119 39 55	900		1899			16
C0 3749	HANFORD REFINERY	245	SEC 36	T18S	R21E	Q	M	36 18 59	119 39 10	000		1964			16
C1 3811-11	HASLETT BASIN	2400	SEC 14	T11S	R25E	K	M	36 58 18	119 12 54	905		1960			10
B4 3939	HETCH HETCHY	3870	SEC 16	T01N	R20E	G	M	37 56 42	119 46 54	900		1910			55
B6 3948	HIDDEN VALLEY	1750	SEC 01	T06S	R18E	J	M	37 26 00	119 56 24	000		1949			22
B3 3952	HIGHLAND LAKES	8700	SEC 32	T08N	R20E	Q	M	38 29 48	119 47 48	900		1960			02
B0 3981	HILMAR	93	SEC 22	T06S	R10E	A	M	37 24 10	120 50 59	000		1948			24
C2 4012	HOCKETT MEADOWS	8500	SEC 07	T18S	R31E		M	36 22 00	118 39 00	900		1959			54
B4 4015	HODGDON MEADOW	4640	SEC 03	T02S	R19E		M	37 48	119 52	907		1967			55
C0 4061-01	HOMELAND DIST SEC 9	190	SEC 09	T23S	R22E	A	M	35 56 53	119 35 30	002		1952	1969		16
B5 4102-01	HORNITOS ERICKSON RCH	1150	SEC 18	T05S	R17E	Q	M	37 29 40	120 08 55	000		1955			22
B5 4103	HORNITOS GILES RCH	1050	SEC 29	T05S	R16E	H	M	37 28 10	120 14 00	000		1939			22
B5 4104-80	HORNITOS USCE	850	SEC 17	T05S	R16E	G	M	37 30 10	120 14 08	901		1960			22
C3 4120	HOSSACK (RADIO)	7100	SEC 16	T20S	R31E		M	36 11 00	118 37 00	900		1959			54
B4 4148	HUCKLEBERRY LAKE	7800	SEC 23	T03N	R20E		M	38 06 00	119 45 00	900		1948	1971		55
B3 4170	HUNTERS DAM	3220	SEC 18	T04N	R15E	K	M	38 12 00	120 21 36	900		1950			05
B7 4176	HUNTINGTON LAKE	7020	SEC 15	T08S	R25E	R	M	37 13 45	119 13 10	900		1915			10
C0 4188	HURON RANCH	335	SEC 22	T19S	R17E		M	36 15 41	120 06 05	000		1951			10
B8 4204	IDRIA	2650	SEC 29	T17S	R12E	J	M	36 24 58	120 40 17	900		1918			35
B5 4246	INDIAN GULCH	1000	SEC 03	T06S	R16E	J	M	37 26 18	120 11 46	000		1952	1970		22
C5 4303	ISABELLA DAM	2660	SEC 19	T26S	R33E	P	M	35 38 46	118 28 45	903		1949			15
C0 4312	IVANHOE I D	370	SEC 36	T18S	R25E	R	M	36 24 15	119 12 21	000		1954			54
B5 4369	JERSEYDALE G S	3605	SEC 35	T04S	R19E		M	37 32 36	119 50	905		1958			22
C5 4389	JOHNSONDALE	4680	SEC 32	T22S	R32E	K	M	35 58 13	118 32 27	900		1954			54

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude °	Latitude '	Latitude "	Longitude °	Longitude '	Longitude "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
B7 4442	KAISER MEADOWS	9110	SEC 26	T07S	R26E		M	37	18	00	119	06	00	900		1946			10
C2 4452	KAWEAH PH 3	1370	SEC 33	T16S	R29E	Q	M	36	29	12	118	50	06	004		1913			54
C6 4463	KEENE	2575	SEC 20	T31S	R32E	C	M	35	13	28	118	33	55	000		1948			15
C5 4513	KERN CANYON	700	SEC 06	T29S	R30E	B	M	35	26	27	118	47	45	003		1916			15
C5 4519	KERN R 3 INTAKE SCE	3642	SEC 12	T23S	R32E	F	M	35	56	43	118	28	33	004		1921			54
C5 4520	KERN RIVER PH NO 1	970	SEC 29	T28S	R30E	N	M	35	27	37	118	46	48	900		1904			15
C5 4523	KERN RIVER PH NO 3	2703	SEC 09	T25S	R33E	A	M	35	46	35	118	26	08	900		1946			15
C0 4534	KETTLEMAN CITY	310	SEC 19	T22S	R19E	C	M	35	59	45	119	57	55	900		1930		03	16
C0 4535	KETTLEMAN HILLS	1255	SEC 11	T22S	R17E	F	M	36	01	50	120	06	15	000		1931			16
C0 4536	KETTLEMAN STATION	508	SEC 25	T21S	R17E	L	M	36	04	28	120	05	08	900		1933			16
B0 4590	KNIGHTS FERRY 2 SE	315	SEC 27	T01S	R12E		M	37	47	54	120	38	42	900		1905			50
B3 4664	LAKE ALPINE	7500	SEC 08	T07N	R18E	A	M	38	28	42	120	00	48	900		1948			02
B4 4679	LAKE ELEANOR	4662	SEC 03	T01N	R19E	F	M	37	58	00	119	53	00	900		1909			55
C6 4863	LEBEC	3585	SEC 26	T09N	R19W	P	S	34	49	58	118	51	51	900		1940			15
B0 4884	LE GRAND	255	SEC 17	T08S	R16E	N	M	37	13	50	120	14	50	900		1899			24
B0 4884-05	LE GRAND 6 N	280	SEC 19	T07S	R16E	H	M	37	18	39	120	15	05	000		1946			24
C2 4890	LEMON COVE	513	SEC 02	T18S	R27E	N	M	36	23	00	119	01	31	900		1899			54
C0 4957	LINDSAY	395	SEC 17	T20S	R27E	F	M	36	11	24	119	04	20	900		1913			54
B8 4979	LITTLE PANOCHE DET RES	677	SEC 20	T13S	R11E		M	36	47		120	48		900		1968			10
B0 4999-02	LIVINGSTON CITY HALL	130	SEC 25	T06S	R11E	E	M	37	23	10	120	43	15	000		1948		07	24
B0 4999-03	LIVINGSTON 5 W	112	SEC 32	T06S	R11E	D	M	37	22	29	120	47	40	000		1952			24
C2 5026	LODGEPOLE	6735	SEC 21	T15S	R30E		M	36	36		118	14		900		1968			54
C6 5098	LORAINE	2720	SEC 21	T30S	R33E	K	M	35	18	05	118	25	54	900		1941			15
B0 5116	LOS BANOS 5 S	175	SEC 11	T11S	R10E	P	M	36	59	02	120	50	45	013		1948			24
B0 5117	LOS BANOS FIELD STA	160	SEC 32	T10S	R10E	Q	M	37	00	54	120	53	55	904		1956			24
B0 5118	LOS BANOS	125	SEC 23	T10S	R10E	L	M	37	03	00	120	51	00	900		1873			24
B8 5119	LOS BANOS ARBURUA	860	SEC 24	T12S	R09E	C	M	36	52	52	120	56	25	900		1932			24
B8 5120	LOS BANOS DET RES	407	SEC 12	T11S	R09E		M	37	01		120	56		900		1968			24
C0 5151	LOST HILLS	285	SEC 35	T26S	R21E	N	M	35	37	00	119	41	17	900		1912			15
C1 5155-51	LOWER BIG CREEK	1078	SEC 04	T12S	R25E	J	M	36	54	48	119	14	42	905		1960			10
B4 5160	LOWER KIBBEY RIDGE	6500	SEC 22	T02N	R19E		M	38	01	00	119	53	00	900		1948	1971		55
B0 5233-03	MADERA I D YARD	270	SEC 32	T11S	R18E	N	M	36	55	15	120	01	12	904		1952			20
B0 5236	MADERA	200	SEC 13	T11S	R18E	P	M	36	58		120	03		900		1950			20
C0 5257	MAGUNDEN	440	SEC 36	T29S	R28E	G	M	35	21	42	118	55	18	004		1927			15
B7 5288	MAMMOTH POOL	3400	SEC 11	T07S	R24E	D	M	37	20	31	119	19	45	905		1947			20
B0 5303	MANTECA	44	SEC 04	T02S	R07E	H	M	37	47		121	12		900		1964			39
C7 5338	MARICOPA	680	SEC 31	T12N	R23W	N	S	35	04	48	119	22	58	900		1911			15
C7 5338-01	MARICOPA F S	885	SEC 12	T11N	R24W	E	S	35	04		119	24		000		1959			15
B5 5346	MARIPOSA	2011	SEC 23	T05S	R18E	B	M	37	29	10	119	58	00	900		1909			22
B5 5346-01	MARIPOSA REYNOLDS	2000	SEC 23	T05S	R18E	B	M	37	29	20	119	57	55	000		1958			22
B6 5346-04	MARIPOSA 8 ESE	2780	SEC 06	T06S	R20E	E	M	37	26	30	119	49	37	000		1952			22
B5 5352	MARIPOSA RS	2100	SEC 15	T05S	R18E	F	M	37	30	04	119	59	05	808		1943			22
C7 5372-01	MARTINEZ SPRING	1875	SEC 26	T18S	R14E	B	M	36	20	24	120	24	54	000		1959	1970		10
B4 5400	MATHER	4518	SEC 02	T01S	R19E	G	M	37	53	25	119	51	10	900		1930		21	55
B5 5460	MCDIERMID STA	2990	SEC 33	T02S	R17E	H	M	37	43	18	120	05	48	000		1959	1969		22
C7 5480-01	MCKITTRICK F S	1051	SEC 21	T30S	R22E	E	M	35	18	20	119	37	20	000		1956			15
B7 5496	MEADOW LAKE	4485	SEC 11	T10S	R23E	F	M	37	04	38	119	26	00	900		1948			10
B3 5511	MELONES DAM	900	SEC 11	T01N	R13E	K	M	37	57	10	120	30	53	404		1955	1969		55
B0 5526	MENDOTA 1 NNW	172	SEC 25	T13S	R14E	H	M	36	46	23	120	23	09	013		1941			10
C0 5526-04	MENDOTA MURIETTA RCH	261	SEC 04	T15S	R14E	M	M	36	39	05	120	27	20	806		1958			10
B0 5528	MENDOTA DAM	166	SEC 19	T13S	R15E	G	M	36	47	15	120	22	12	900		1873			10
B0 5530	MENDOTA V D L FARMS	230	SEC 32	T13S	R14E	Q	M	36	44	58	120	28	00	000		1948			10
B0 5532	MERCED FIRE STN NO 2	169	SEC 25	T07S	R13E		M	37	17	43	120	29	13	900		1872			24
B0 5534	MERCED FANCHER RCH	212	SEC 29	T07S	R15E	F	M	37	17	47	120	21	09	000		1920			24
B0 5535	MERCED 2	168	SEC 19	T07S	R14E	A	M	37	18	53	120	28	12	900		1938			24
C3 5669	MILO 5 NE	3400	SEC 18	T19S	R30E	C	M	36	16	40	118	46	15	900		1957			54
C6 5669-05	MIL POTRERO	5800	SEC 24	T09N	R22W	E	S	34	51	02	119	11	18	000		1966			15
C2 5680	MINERAL KING	7975	SEC 22	T17S	R31E		M	36	26	00	118	35	00	900		1956	1969		54
C2 5708	MIRAMONTE HONOR CAMP	3005	SEC 31	T14S	R27E	D	M	36	40	00	119	05	00	900		1958			10
C1 5723	MITCHELL MEADOW	9700	SEC 33	T13S	R30E		M	36	45	00	118	43	00	900		1957	1969		10
B4 5735	MOCCASIN	950	SEC 34	T01S	R15E	B	M	37	48	40	120	18	20	401		1935			55
B0 5738	MODESTO	91	SEC 29	T03S	R09E	H	M	37	38	48	121	00	02	900		1926			50
B0 5740	MODESTO KTRB	93	SEC 16	T03S	R09E	J	M	37	40	12	120	58	42	010		1959			50
B0 5741	MODESTO 2	92	SEC 29	T03S	R09E	M	M	37	38	36	121	00	29	900		1942			50
C5 5777	MONACHE MEADOWS	8000	SEC 10	T20S	R35E		M	36	13	00	118	10	00	900		1940	1971		54
C0 5822-80	MOODY RCH	405	SEC 34	T32S	R28E		M	35	06	15	118	58	00	001		1963	1969		15
C1 5832	MORAINE CREEK	8840		T14S	R31E		M	36	43		118	34		903		1964			54
C3 5887	MOUNTAIN HOME 2	5360	SEC 27	T19S	R30E	J	M	36	14	30	118	42	54	901		1963			54
B7 5927	MT GIVENS	9500	SEC 26	T07S	R26E	E	M	37	17		119	06		004		1963	1969		10
B0 6168	NEWMAN 2 NW	108	SEC 12	T07S	R08E	E	M	37	20	33	122	50	00	900		1889			50

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station Number	Station Name	Elevation (in Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude °	Latitude '	Latitude "	Longitude °	Longitude '	Longitude "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
C0 6230-50	NORTH BELRIDGE	630	SEC 26	T27S	R20E	F	M	35	33	04	119	47	28	000		1953			15
B7 6252	NORTH FORK R S	2630	SEC 18	T08S	R23E	M	M	37	13	57	119	30	15	900		1904			20
B0 6303	OAKDALE	155	SEC 11	T02S	R10E	N	M	37	46	10	120	50	53	000		1880		01	50
B6 6321-80	OAKHURST	2250	SEC 14	T07S	R21E	L	M	37	19	46	119	38	42	000		1961			20
C0 6393	OILFIELDS F S	950	SEC 26	T19S	R15E	F	M	36	14	50	120	18	50	808		1952			10
C7 6395	OILFIELDS JOAQUIN RDG	3620	SEC 01	T19S	R14E		M	36	18	00	120	24	00	900		1949			10
C0 6414	OLD RIVER 3 W	334	SEC 35	T30S	R26E	C	M	35	16		119	16		806		1965			15
C5 6462	ONYX	2700	SEC 04	T26S	R35E	K	M	35	41	00	118	14	00	903		1938			15
C0 6476	ORANGE COVE	431	SEC 13	T15S	R24E	K	M	36	37	18	119	18	40	900		1931			10
B0 6490	ORESTIMBA	110	SEC 02	T07S	R08E	D	M	37	21	42	121	03	47	013		1896			50
B5 6552	OSTRANDER LAKE	8600	SEC	T03S	R22E		M	37	38	00	119	33	00	900		1947			22
B8 6583	PACHECO PASS	850	SEC 10	T10S	R07E	B	M	37	04	00	121	11	00	900		1949			24
B8 6675	PANOCHE	1265	SEC 25	T15S	R10E	F	M	36	35	47	120	49	58	900		1922			35
B8 6676	PANOCHE 2 W	1320	SEC 21	T15S	R10E		M	36	36	30	120	52	48	407		1957			35
B0 6679-05	PANOCHE WATER DIST	183	SEC 14	T12S	R11E	H	M	36	53	24	120	43	43	000		1949			10
B4 6688	PARADISE MEADOW	7700	SEC 09	T02N	R21E		M	38	03	00	119	40	00	900		1948	1971		55
B0 6746-01	PATTERSON	100	SEC 30	T05S	R08E		M	37	28	00	121	07	00	000		1912			50
B6 6754	PATTIWAY	3868	SEC 19	T10N	R23W	E	S	34	56	27	119	22	52	900		1915			15
C2 6767	PEAR LAKE	9700	SEC 24	T15S	R30E		M	36	36	00	118	40	00	900		1956	1969		54
B8 6847	PFEIFFER RCH	1615	SEC 19	T12S	R08E	C	M	36	52	59	121	08	12	000		1954	1971		24
B3 6893	PINECREST SUMMIT R S	5600	SEC 21	T04N	R18E		M	38	12		119	59		905		1964			55
B3 6893-01	PINECREST STRAWBERRY	5620	SEC 22	T04N	R18E	F	M	38	11	25	119	59	12	003		1922			55
C1 6896	PINE FLAT DAM	615	SEC 02	T13S	R24E	A	M	36	49	55	119	19	25	903		1949			10
C1 6902	PINEHURST	4050	SEC 23	T14S	R27E	D	M	36	41	54	119	00	54	905		1954			10
C0 7077	PORTERVILLE	393	SEC 26	T21S	R27E	R	M	36	03	58	119	01	14	900		1893			54
C0 7079	PORTERVILLE 3 W	413	SEC 20	T21S	R27E	R	M	36	04	50	119	04	14	000		1958			54
C5 7093	PORTUGUESE MEADOW	7000	SEC 31	T24S	R32E		M	35	48	00	118	34	00	900		1953			54
C4 7096	POSEY 3 E	4920	SEC 28	T24S	R31E		M	35	48	00	118	38	00	900		1954		02	54
C0 7098-07	POSO CREEK	670	SEC 28	T27S	R27E	F	M	35	33	15	119	04	25	000		1967	1969		15
C0 7098-11	POSO RCH	370	SEC 03	T27S	R25E	J	M	35	36	30	119	15	45	001		1913	1969		15
B0 7099-11	POSO CANAL CO HDQ	125	SEC 12	T11S	R13E	P	M	36	58	57	120	30	04	013		1955			10
C5 7179	QUAKING ASPEN	7200	SEC 08	T21S	R32E		M	36	07	00	118	32	00	900		1955	1970		54
C1 7259	RATTLESNAKE CREEK	9900	SEC 08	T11S	R30E		M	36	59	00	118	43	00	900		1961			10
B6 7270-01	RAYMOND 3 SSW	635	SEC 06	T09S	R19E	J	M	37	10	32	119	55	55	000		1940	1970		20
B6 7272-01	RAYMOND 10 N	1640	SEC 32	T06S	R19E	A	M	37	22	24	119	54	24	000		1957			22
B6 7276	RAYMOND 12 NNE	1600	SEC 25	T06S	R19E	R	M	37	22	37	119	49	58	000		1954			22
C0 7288	RECTOR	344	SEC 03	T19S	R25E	J	M	36	18	15	119	14	34	004		1888			54
C0 7354-80	REEDLEY MVFD	345	SEC 27	T15S	R23E		M	36	37		119	27		808		1962			10
B0 7447-80	RIPON	65	SEC 20	T02S	R08E		M	37	44	33	121	07	21	000		1963			39
C0 7460	RIVERDALE	220	SEC 24	T17S	R19E	P	M	36	25	58	119	51	36	000		1917			10
B6 7528	ROCKY VILLAGE	820	SEC 19	T06S	R17E	K	M	37	20	45	120	08	42	000		1957			22
C3 7529	ROGERS CAMP	6240	SEC 09	T21S	R31E		M	36	04	24	118	38	12	901		1964			54
C0 7555	ROSEDALE	380	SEC 01	T29S	R26E	R	M	35	25	40	119	07	42	001		1914	1969		15
B7 7560	ROSE MARIE MEADOW	10000	SEC 14	T07S	R28E		M	37	19	00	118	52	00	900		1953			10
C5 7579	ROUND MEADOW	9000	SEC 36	T22S	R33E		M	35	58	00	118	21	00	900		1947	1971		54
B4 7623	SACHES SPRINGS	7900	SEC 25	T03N	R19E		M	38	06	00	119	51	00	900		1948	1971		55
C0 7753	SAN EMIGDIO RCH	1450	SEC 36	T11N	R22W	L	S	34	59	45	119	10	59	900		1901	1969		15
C0 7800-02	SANGER 1 NE	375	SEC 11	T14S	R22E	K	M	36	43	30	119	32	36	000		1959			10
C0 7800-03	SANGER R S	375	SEC 11	T14S	R22E	E	M	36	43	48	119	33	18	808		1958			10
C0 7816	SAN JOAQUIN	174	SEC 23	T15S	R16E	J	M	36	36	25	120	11	15	000		1919			10
B7 7817	SAN JOAQUIN EXP RANGE	1100	SEC 06	T10S	R21E	E	M	37	05	40	119	43	38	900		1934			20
C0 7819-80	SAN JOAQUIN MVFD	174	SEC 23	T15S	R16E	J	M	36	36	28	120	11	18	808		1962	1970		10
B8 7846	SAN LUIS DAM	277	SEC 14	T10S	R08E		M	37	03		121	04		904		1959			24
B0 7855	SAN LUIS CANAL CO HQ	99	SEC 31	T09S	R12E	P	M	37	06	07	120	42	04	013		1944			24
C0 7987-80	SANTIAGA RANCH	437	SEC 27	T12N	R22W		S	35	05	35	119	12	35	000		1963	1970		15
B0 8316	SNELLING	259	SEC 04	T05S	R14E		M	37	31	24	120	26	18	000		1882		19	24
B0 8316-05	SNELLING 3 WNW	300	SEC 36	T04S	R13E	J	M	37	32	35	120	28	57	000		1949			24
B5 8318	SNOW FLAT	8700	SEC 19	T01S	R23E		M	37	50	00	119	30	00	900		1947	1972		22
C1 8323-01	SOAPROOT SADDLE	3830	SEC 28	T10S	R25E	P	M	37	01	30	119	15	06	905		1960			10
B4 8353	SONORA R S	1745	SEC 36	T02N	R14E		M	37	59	00	120	23	00	900		1887			55
C0 8375-50	SOUTH BELRIDGE	575	SEC 28	T28S	R21E	R	M	35	27	23	119	42	37	000		1938			15
B0 8378	SOUTH DOS PALOS	116	SEC 22	T11S	R12E	E	M	37	58	45	120	38	48	000		1938			24
B5 8380	SO ENTRANCE YOSEMITE	5120	SEC 12	T05S	R21E	N	M	37	30	26	119	37	55	900		1941			22
C0 8407-11	SOUTH LAKE FARMS HDQ	190	SEC 13	T23S	R21E	A	M	35	56	02	119	38	46	000		1959			16
B3 8450	SPRING GAP FOREBAY	3000	SEC 27	T04N	R17E	H	M	38	10	06	120	06	08	003		1921			55
C3 8455	SPRINGVILLE 7 ENE	2470	SEC 26	T20S	R30E	D	M	36	09	47	118	42	21	900		1953			54
C3 8460	SPRINGVILLE R S	1050	SEC 02	T21S	R29E	B	M	36	08	09	118	48	40	900		1924			54
C3 8463	SPRINGVILLE TULE HDW	4070	SEC 07	T20S	R31E	Q	M	36	11	35	118	39	23	900		1907			54
C1 8474-80	SQUAW VALLEY FR	1750	SEC 35	T13S	R25E	P	M	36	44	58	119	12	21	808		1961			10
B3 8499	STANISLAUS PH	1130	SEC 06	T03N	R15E	L	M	38	08	23	120	22	10	900		1957			55

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude °	Latitude '	Latitude "	Longitude °	Longitude '	Longitude "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
C1 8510	STATE LAKES	10300	SEC 34	T11S	R31E		M	36	56	00	118	35	00	900		1955			10
C3 8620	SUCCESS DAM	590	SEC 35	T21S	R28E	L	M	36	03	00	118	55	00	903		1959			54
C1 8643	SUMMIT MEADOW	6240	SEC 02	T10S	R25E	Q	M	37	05	12	119	12	36	900		1960			10
C7 8752	TAFT	1025	SEC 14	T32S	R23E	J	M	35	08	34	119	27	53	900		1940			15
C7 8755	TAFT KTKR RADIO	1030	SEC 14	T32S	R23E	G	M	35	08	50	119	28	18	000		1954			15
C6 8826	TEHACHAPI	3975	SEC 21	T32S	R33E	M	M	35	08	00	118	27	00	900		1876			15
C6 8832	TEHACHAPI AIRPORT	3975	SEC 21	T32S	R33E	C	M	35	08	05	118	26	31	900		1940			15
C0 8839	TEJON RANCHO	1425	SEC 24	T11N	R18W	H	S	35	01	35	118	44	38	900		1895			15
C5 8857-10	TEN HIGH MINE	5200	SEC 03	T27S	R31E	A	M	35	36	49	118	37	30	000		1968	1971		15
C2 8868	TERMINUS DAM	965	SEC 36	T17S	R27E	E	M	36	24	37	119	00	20	903		1959			54
C7 8893-80	THIRTY-TWO CORRAL	1700	SEC 32	T18S	R15E	P	M	36	18	47	120	21	51	000		1959	1970		10
C2 8912	THREE RIVERS 6 SE	2200	SEC 16	T18S	R29E	C	M	36	22	00	118	51	00	900		1940			54
C2 8914	THREE RIVERS PH NO 2	950	SEC 07	T17S	R29E	Q	M	36	27	40	118	52	40	900		1909			54
C2 8917	THREE RIVERS PH NO 1	1140	SEC 08	T17S	R29E	K	M	36	27	58	118	51	40	900		1940			54
C0 9006	TRANQUILLITY GLOTZ	165	SEC 16	T15S	R16E	C	M	36	37	57	120	14	13	000		1953			10
B6 9020-15	TRIANGLE-DESMOND	3150	SEC 19	T05S	R20E	A	M	37	29	10	119	49	06	000		1965			22
C1 9025	TRIMMER R S	736	SEC 12	T12S	R24E	A	M	36	54	05	119	17	16	905		1948			10
C0 9051	TULARE	293	SEC 01	T20S	R24E	N	M	36	12	45	119	19	50	004		1919			54
C0 9051-04	TULARE DIST SEC 27	179	SEC 27	T21S	R20E	A	M	36	04	41	119	47	33	002		1953	1969		16
C0 9052	TULEFIELD	300	SEC 18	T32S	R28E	B	M	35	09	00	119	01	00	900		1948	1970		15
C3 9059	TULE RIVER INTAKE	2450	SEC 26	T20S	R30E	D	M	36	09	42	118	42	22	004		1910			54
C3 9060	TULE RIVER PH	1240	SEC 06	T21S	R30E	D	M	36	08	07	118	47	15	004		1910			54
C5 9061	TUNNEL R S	8950	SEC 10	T18S	R34E		M	36	22	00	118	17	00	900		1945			54
B3 9062	TULLOCH DAM	515	SEC 01	T01S	R12E	L	M	37	52	30	120	36	12	404		1958			05
B4 9062-90	TUOLUMNE MAINT YARD	2690	SEC 05	T01N	R16E	R	M	37	57	55	120	13	55	000		1969			55
B4 9063	TUOLUMNE MEADOWS	8600	SEC 03	T01S	R24E		M	37	53	00	119	20	00	900		1947	1972		55
B0 9073	TURLOCK	115	SEC 22	T05S	R10E	D	M	37	29	28	120	51	00	900		1893			50
B0 9073-01	TURLOCK 5 SW	76	SEC 30	T05S	R10E	Q	M	37	27	52	120	54	39	000		1958			50
B0 9073-02	TURLOCK 8 WSW	60	SEC 28	T05S	R09E	D	M	37	28	22	120	59	30	000		1958			50
C3 9120	UHL R S	3680	SEC 32	T23S	R31E	H	M	35	53		118	39		900		1965			54
C0 9145	U S COTTON FIELD STN	367	SEC 33	T27S	R25E	J	M	35	32	00	119	16	40	906		1922			15
B7 9301	VERMILLION VALLEY	7520	SEC 26	T06S	R27E		M	37	22	00	118	59	00	900		1946			10
C0 9304	VESTAL	500	SEC 17	T24S	R27E	M	M	35	50	24	119	05	12	004		1920			54
C1 9328	VIDETTE MEADOW	9500		T13S	R33E		M	36	45		118	25		901		1964			10
C0 9367	VISALIA	354	SEC 29	T18S	R25E	M	M	36	19	45	119	17	18	900		1903			54
C0 9369	VISALIA 4 E	357	SEC 36	T18S	R25E	D	M	36	19	32	119	13	24	000		1959	1970		54
C5 9417-10	WALKER BASIN	3450	SEC 10	T29S	R32E	E	M	35	25	17	118	32	35	000		1968			15
C0 9452	WASCO	333	SEC 12	T27S	R24E	J	M	35	35	35	119	19	57	900		1899			15
B5 9482	WAWONA R S	3975	SEC 34	T04S	R21E	P	M	37	32		119	40		900		1941			22
C5 9512	WELDON 1 WSW	2680	SEC 23	T26S	R34E	D	M	35	40	00	118	18	00	900		1940			15
B6 9556-80	WESTFALL R S	4795	SEC 35	T05S	R21E	M	M	37	26	58	119	38	59	905		1961	1971		20
C0 9560	WESTHAVEN	285	SEC 34	T19S	R18E	R	M	36	13	38	119	59	40	900		1925			10
B0 9565	WESTLEY	85	SEC 33	T04S	R07E	B	M	37	33	00	121	12	00	000		1928			50
C1 9600	WEST WOODCHUCK	9100	SEC 28	T10S	R28E		M	37	01	48	118	55	06	903		1969			10
C5 9602	WET MEADOW	8950	SEC 13	T18S	R32E	R	M	36	20	56	118	34	16	900		1959			54
C2 9629	WHITAKER FOREST	5360	SEC 16	T14S	R28E	Q	M	36	42	05	118	55	56	815		1966			54
B6 9640-80	WHITE ROCK PRESTON	984	SEC 07	T07S	R18E	K	M	37	20	12	120	02	18	903		1950			22
C0 9670-80	WILBUR DITCH	210	SEC 18	T23S	R21E	D	M	35	36	10	119	45	10	000		1962			16
C1 9749	WISHON LAKE	6560	SEC 01	T11S	R27E		M	37	00	40	118	58	20	003		1957			10
C5 9754	WOFFORD HEIGHTS	2700	SEC 32	T25S	R33E	H	M	35	43	00	118	27	00	900		1894			15
C4 9805	WOODY	1630	SEC 03	T26S	R29E	C	M	35	42	02	118	50	34	808		1956			15
B5 9855	YOSEMITE NAT PARK	3985	SEC 20	T02S	R22E		M	37	45	00	119	35	00	900		1904			22
ADDITIONAL STATIONS, 1971-72																			
B0 5738-35	MODESTO 6 SW	50	SEC 03	T05S	R08E	C	M	37	32	05	121	04	30			1970			50
B7 5893	MOUNTAIN REST	4100	SEC 17	T10S	R24E	R	M	37	03	18	119	22	12	905		1960			10
C0 4564-20	KINGSBURG 2 S	286	SEC 02	T17S	R22E		M	36	30		119	33		915		1970			16
C6 2683-20	EDMONSTON P P	1300	SEC 17	T10N	R18W	M	S	34	56	42	118	49	30	806		1971			15
C5 6724-50	PASCOES	9130	SEC 36	T22S	R33E		M	35	58		118	21		903		1971			54

TABLE A-2

PRECIPITATION DATA

The definition of terms and abbreviations used in this table follows:

-	No record or record incomplete.
*	Amount included in the following measurement. Time distribution unknown.
E	Wholly or partially estimated.
T	Trace, an amount too small to measure.
V	Includes total from previous month.
NR	Data not received before publication.
RB	Record begins.
RE	Record ends.
INC	Incomplete data.

Precipitation values are shown to the nearest hundredth (.01) of an inch, except where Fisher & Porter recording rain gages are used; these values are shown to the nearest tenth (.1) of an inch.

TABLE A-2

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1971 JULY	1971 AUG	1971 SEPT	1971 OCT	1971 NOV	1971 DEC	1972 JAN	1972 FEB	1972 MAR	1972 APR	1972 MAY	1972 JUNE	1972 JULY	1972 AUG	1972 SEP	TOTAL OCT 1 TO SEPT 30
SAN JOAQUIN R BASIN																	
SAN JOAQUIN VAL FL 80																	
CASTLE AFB	6.15	T	T	0.06	0.42	0.87	2.62	0.79	0.75	T	0.64	T	T	0.00	0.00	0.05	6.14
DELTA RCH	3.54	0.00	0.00	0.00	0.00	0.65	1.89	0.37	0.32	0.00	0.31	0.00	0.00	0.00	0.00	0.00	3.54
DENAIR BARFIELD	5.81	0.00	0.00	0.02	0.42	1.07	2.89	0.38	0.50	0.02	0.43	0.08	0.00	0.00	0.00	0.00	5.79
EL SOLYO RCH	4.24	0.00	0.00	0.00	0.19	0.39	2.65	0.44	0.32	0.02	0.13	0.04	0.06	0.00	0.00	0.00	4.24
FANCHER RCH CAMP #3	5.82	0.00	0.00	0.20	0.08	1.32	2.10	0.48	0.48	0.00	1.03	0.13	0.00E	0.00E	0.00E	0.17	5.79E
GUSTINE 5 SW	4.85	T	0.00	0.01	0.25	0.73	2.77	0.56	0.25	0.00	0.28	0.00	0.00	0.00	0.00	T	4.84
GUSTINE SNYDER	5.00	0.00	0.00	0.17	0.31	0.60	2.83	0.56	0.25	0.00	0.28	0.00	0.00	0.00	0.00	T	4.83
GUSTINE FOREMOST	4.73	0.00	0.00	0.00	0.21	0.61	2.98	0.44	0.31	0.00	0.18	0.00	0.00	0.00	0.00	0.00	4.73
GUSTINE 7 SSW	4.18	0.03	T	T	0.31	0.59	2.02	0.65	0.40	0.00	0.18	0.00	T	0.00	0.00	T.	4.15
HILMAR	5.36	0.00	0.00	T	0.22	1.23	3.04	0.29	0.54	0.00	0.04	0.00	0.00	0.00	0.00	0.00	5.36
LE GRAND 6 N	5.81	0.00	0.00	0.42	0.00	1.36	2.38	0.52	0.55	0.00	1.00	0.00	0.00	0.00	0.00	0.15	5.96
LIVINGSTON CITY MALL	6.10	0.00	0.00	0.02	0.41	0.87	2.97	0.96	0.56	T	0.31	0.00	T	0.00	0.00	0.00	6.08
LIVINGSTON 5 W	5.98	0.00	0.00	0.01	0.27	1.30	3.12	0.44	0.40	0.00	0.44	0.00	0.02	0.00	0.00	0.00	5.97
LOS BANOS 5 S	1.98	0.00	0.00	0.00	0.28	0.19	0.99	0.20	0.18	0.00	0.14	0.00	0.00	0.00	0.00	0.12	2.10
LOS BANOS FIELD STA	2.73	0.00	T	0.02	0.35	0.38	1.31	0.31	0.19	0.00	0.17	0.00	T	T	0.00	0.06	2.77
MADERA I D	3.99	0.00	0.00	0.04	0.04	0.80	1.83	0.12	0.57	0.00	0.48	0.06	0.05	0.01	0.00	0.08	4.04
MENDOTA 1 NNW	2.21	0.00	0.00	0.06	0.01	0.38	1.16	0.15	0.17	0.00	0.16	0.05	0.07	T	0.00	0.11	2.26
MENDOTA VDL FARMS	2.25	0.00	0.00	0.08	0.09	0.54	0.93	0.31	0.14	0.00	0.16	0.00	0.00	0.00	0.00	0.15	2.32
MERCED FANCMER RCH	5.12	0.00	0.00	0.19	0.06	1.12	1.82	0.51	0.46	0.00	0.85	0.11	0.00	0.00	0.00	0.00	4.93
MODESTO 6 SW	7.57	0.00	T	0.05	0.36	0.79	4.11	1.43	0.30	T	0.44	T	0.09	0.00	0.00	0.14	7.66
MODESTO KTRB	6.55	0.00	0.00	0.06	0.38	0.84	3.73	0.51	0.33	0.04	0.57	T	0.09	0.00	0.00	0.12	6.61
OAKDALE	7.96	0.00	0.00	0.06	0.26	1.54	4.05	0.62	0.58	0.06	0.74	0.05	0.00	0.00	0.00	0.04	7.94
ORESTIMBA	6.01	0.00	0.00	0.03	0.27	0.79	3.72	0.57	0.27	0.00	0.36	0.00	0.00	0.00	0.00	0.01	5.99
PANOCHE WATER DIST	1.38	0.00	0.00	0.02	0.09	0.40	0.74	T	0.04	0.00	0.09	0.00	0.00	0.00	0.00	0.05	1.41
PATTERSON	5.19	0.00	T	0.00	0.24	0.51	3.35	0.60	0.21	T	0.20	T	0.08	0.00	0.00	0.09	5.28
POSO CANAL CO HQ	2.82	0.00	0.00	0.38	0.12	0.50	1.07	0.23	0.21	0.00	0.31	0.00	0.00	0.00	0.00	0.31	2.75
RIPON	6.36	0.00	0.00	0.14	0.28	1.01	3.28	0.43	0.49	0.02	0.71	0.00	0.00	0.00	0.00	0.37	6.59
SAN LUIS CANAL CO HQ	3.07	0.00	T	0.05	0.12	0.46	1.40	0.40	0.36	0.00	0.28	0.00	T	0.00	0.00	0.11	3.13
SNELLING	6.45	0.00	0.00	T	0.28	1.04	2.66	0.48	0.82	0.00	1.13	0.04	0.00	0.00	0.00	0.03	6.48
SNELLING 3 WNW	6.43	0.00	0.00	0.00	0.10	1.43	2.58	0.84	0.66	0.60	0.00	0.22	0.00	0.00	0.00	0.00	6.43
SOUTH DOS PALOS	2.52	0.00	0.00	0.05	0.08	0.51	0.96	0.37	0.24	0.00	0.31	0.00	T	0.00	0.00	0.30	2.77
TURLOCK 5 SW	7.58E	0.00	0.00	T	0.45	1.68	4.20	0.50E	0.80	0.00	0.45	0.00	0.00	0.00	0.00	T	7.58E
TURLOCK 8 WSW	6.16	0.00	0.00	0.00	0.44	0.92	3.42	0.50	0.34	0.01	0.53	0.00	0.00	0.00	0.00	T	6.16
WESTLEY	4.16	0.00	0.00	0.00	0.20	0.33	2.87	0.47	0.17	0.00	0.12	0.00	0.00	0.00	0.00	0.19	4.35
STANISALUS RIVER B3																	
ANGELS CAMP	21.28	0.00	0.00	0.24	0.37	4.56	8.42	2.08	2.64	0.42	2.45	0.09	0.01	0.00	0.02	0.26	21.32
BEAR VALLEY-ALPINE	20.62	0.12	0.14	0.62	1.17	5.69	3.30	1.20	2.32	1.43	2.78	0.62	1.23	T	0.35	1.38	21.47
BEARDSLEY DAM	29.99	0.00	0.02	0.29	1.22	6.22	10.31	2.39	2.78	1.01	4.03	0.10	1.62	T	0.58	0.17	30.43
COLUMBIA	21.93	0.00	0.00	0.30	0.37	4.59	9.00	2.42	2.75	0.18	2.25	0.07	0.00	0.00	0.00	0.10	21.73
COPPEROPOLIS	15.80E	0.00E	0.00E	0.20E	0.48	3.19	6.40	1.29	2.58	0.16	1.50E	0.00E	0.00E	0.00E	0.00E	0.20E	15.80E
PINECREST STRAWBERRY	36.68	0.05	0.00	0.55	1.00	7.82	13.36	2.79	3.04	1.05	4.96	0.35	1.71	0.00	0.30	0.35	36.73
SPRING GAP FOREBAY	27.18	0.00	0.00	0.47	0.95	7.20	7.66	2.93	1.47	0.87	4.06	0.15	1.42	0.00	0.38	0.00	27.09
TULLOCK DAM	13.64	0.00	0.00	0.06	0.31	2.35	6.51	1.49	1.60	0.18	1.12	0.02	T	0.00	0.00	T	13.58
TUOLUMNE RIVER B4																	
DON PEDRO RESERVOIR	10.56	0.00	0.00	0.05	0.18	2.06	4.49	1.25	1.17	0.09	1.27	T	0.00	T	0.00	0.00	10.51
EARLY INTAKE P H	23.29	0.00	0.00	0.31	0.61	5.06	9.19	2.29	2.01	0.04	3.37	0.18	0.23	T	0.14	0.25	23.37
HODGDON MEADOW	29.09E	0.05E	0.45E	1.22E	0.42	3.03	12.73	2.81	2.35	0.15	5.06	0.07	0.75	0.09	0.42	0.52	28.40
LAKE ELEANOR	27.67E	0.00	0.00	1.14	0.48	5.73	9.89	1.94	2.96	0.25	4.10E	0.22	0.96	0.00E	0.20E	0.50E	27.25E
MOCCASIN	16.00	0.00	0.00	0.22	0.25	4.15	6.28	1.49	1.54	0.13	1.92	0.02	0.00	0.00	0.01	0.00	15.79
TUOLUMNE MAINT YARD	24.34	0.00	0.00	0.44	0.70	5.47	7.94	1.63	3.82	0.40	2.84	0.10	1.00	T	0.00	T	23.90
MERCED RIVER B5																	
BEAR VALLEY	15.89E	0.00	0.00E	0.50E	0.00	3.84	6.29	0.30	2.88	0.00	1.93	0.15	0.00	0.00	0.00	0.26	15.65
CATHEYS VALLEY 3 NNW	12.05	0.00	0.00	0.70	0.00	2.35	5.05	0.50	1.55	0.00	1.90	0.00	0.00	0.00	0.00	0.00	11.35
COULTERVILLE FFS	19.04	0.00	0.00	0.40	0.03	4.71	8.06	0.92	2.53	0.00	2.33	0.05	0.01	0.00	0.00	0.05	18.69
GREELEY HILL 1 N	23.92	0.00	0.00	0.71	0.27	5.34	8.73	2.32	2.88	0.06	3.43	0.05	0.13	0.00	0.12	0.03	23.36
HORNITOS ERICKSON RCH	12.73	0.00	0.00	0.38	0.00	3.01	5.52	1.24	0.59	0.03	1.96	0.00	0.00	0.00	0.00	0.22	12.57
HORNITOS GILES RCH	11.77	0.00	0.00	0.25	T	3.50	4.28	1.04	0.91	0.00	1.77	0.02	0.00	T	0.00	0.47	11.99
HORNITOS USCE	10.56E	0.00E	0.00E	0.20E	0.00	2.79	3.89	1.39	0.75	0.00	1.54	0.00E	0.00E	0.00E	0.00E	0.40E	10.76E
JERSEYDALE G S	22.67	0.00	0.00	0.62	0.38	5.25	9.51	1.57	2.60	0.00	2.68	0.00	0.06	0.04	0.30	0.45	22.84
MARIPOSA REYNOLDS	16.44	0.00	0.00	0.40	0.03	3.50	6.91	1.18	2.13	0.00	2.06	0.20	0.03	0.03	0.04	0.41	16.52
MARIPOSA R S	13.67E	0.00E	0.00E	0.50E	0.00E	1.90	4.64	2.23	2.07	0.00	2.23	0.10E	0.00E	0.00E	0.00E	0.30E	13.47E
FRESNO-CHOWCHILLA R B6																	
AHWAHNEE 2 NNW	17.01	0.03	0.00	0.54	0.51	3.43	6.10	1.37	2.32	0.02	2.26	0.03	0.40	0.10	0.14	0.57	17.25
COARSEGOLD	16.24	0.00	T	0.43	0.12	2.69	8.64	1.21	1.38	T	1.27	0.05	0.45	0.06	T	0.39	16.26
DAULTON	5.70	T	0.00	0.21	0.03	0.99	2.46	0.32	1.04	T	0.61	0.03	0.01	0.00	0.00	0.24	5.73
HIDDEN VALLEY	17.20	T	0.00	0.39	0.14	2.55	8.18	1.55	1.89	0.00	2.25	0.20	0.05	0.02	0.06	0.41	17.30
MARIPOSA 8 ESE	18.50	0.00	0.00	0.52	0.37	3.68	7.81	1.49	2.58	T	1.97	0.06	0.02	0.04	0.12	0.61	18.75
OAKHURST	19.15	0.00	0.00	0.38	0.00	4.30	9.02	1.42	1.35	0.00	1.99	0.00	0.69	0.00	0.00	0.00	18.77
RAYMOND 10 N	12.46	0.00	0.00	0.20	0.13	1.61	5.98	1.08	2.03	0.00	1.28	0.15	0.00	0.00	0.00	0.47	12.73
RAYMOND 12 NNE	13.14	0.00	0.00	0.48	0.32	2.64	5.15	1.46	1.78	0.00	1.28	0.03	T	0.00	0.05	0.50	13.21
ROCKY VILLAGE	9.89E	0.00	0.00	0.45	0.04	1.28	4.30E	0.73	1.43	0.04	1.57	0.05	T	0.00E	0.00E	0.40E	9.84E
TRIANGLE-OESMOND	22.37	0.03	0.00	0.61	0.47	5.47	9.11	1.67	2.53	T	2.24	0.04	0.20	0.06	0.16	0.59	22.54
WESTFALL R S	-	0.04	0.03	0.95	RE												-
WHITE ROCK-PRESTON	-	0.00E	0.00E	0.30E	-	-	4.19	0.85E	1.33	0.00	1.29	-	-	-	-	-	-
SAN JOAQUIN RIVER B7																	
BIG CREEK PH 2	20.33	0.04	0.16	0.54	0.69	4.16	9.60	1.05	1.65	0.00	1.58	0.04	0.82	0.06	0.35	2.24	22.24
BIG CREEK PH 3	17.07	0.03	0.00	0.63	0.36	3.29	8.08	0.94	1.10	0.00	1.09	0.15	1.40	0.00	0.02	1.45	17.88
BIG CREEK PH 8	17.75	T	0.00	0.66	0.82	3.69	7.60	1.00	1.52	0.00	1.42	0.02	1.02	0.05	0.65	2.04	19.83
CRANE VALLEY PH	24.43	0.06	0.00	0.57	0.79	5.71	10.24	1.45	2.20	0.00	2.14	0.27	1.00	0.04	0.04	0.93	24.81
FRIANT STILLWELL	9.79	0.00	0.00	0.31	0.10	1.88	4.66	0.42	1.07	0.00	0.53	0.10	0.72	0.00	0.00	0.55	10.03
MOUNTAIN REST	17.87	0.00	0.00	0.63	0.17	4.16	7.20	1.90	1.84	0.00	0.97	0.09	0.91	0.05	0.03	1.16	18.48
SAN JOAQ VAL WESTSIDE 88																	
PANOCHE 2 W	3.38	0.00	T	0.00	0.15	0.38	2.40	0.18	0.16	0.00	0.11	0.00	0.00	0.00	0.00	0.30	3.68
PFEIFFER RCH	-	-	-	-	RE												

TABLE A-2 (Cont.)

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1971						1972									TOTA OCT TO SEPT
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
TULARE LAKE BASIN																	
TULARE LAKE VAL FLOOR CO																	
ARVIN	2.44E	0.00	0.05	0.08	0.05	0.77	1.11	0.00E	0.14	0.00E	0.14	0.00E	0.10	0.00	0.00	0.07	2.3
AVENAL ORCHARD	3.05	0.00	0.00	0.00	0.20	0.38	2.15	0.18	0.14	0.00	T	0.00	0.00	0.00	0.00	0.06	3.1
BUENA VISTA RCH M&L	1.99	0.00	0.00	0.04	0.10	0.07	1.35	0.16	T	0.00	0.02	0.00	0.29	0.00	0.00	0.02	2.0
BUENA VISTA RCH M&L 2	2.21	0.00	0.00	T	0.06	0.08	1.36	0.18	T	0.00	0.01	0.00	0.52	0.00	0.00	T	2.2
CANTUA RCH	2.43	0.00	0.00	0.00	0.00	0.46	1.52	0.17	0.15	0.00	0.08	0.00	0.05	0.00	0.00	0.23	2.6
CARUTHERS 4 E	-	-	-	-	RE												
COALINGA COF	2.54	0.00	T	0.00	0.09	0.20	2.10	0.06	0.06	0.00	0.03	0.00	T	0.05	0.00	0.14	2.7
COIT RANCH HDQ	1.50	0.00E	0.00E	T	0.07	0.27	0.79	0.14	0.10	0.00	0.03	0.10	0.00	0.00	0.00	0.04	1.9
CORCORAN EL RICO 1	3.51	0.00	0.00	0.00	0.00	0.72	2.14	0.20	0.29	0.00	0.09	0.05	0.02	0.00	0.00	0.09	3.8
DELANO GOVT CAMP	3.86	0.00	0.00	0.04	0.00	0.30	2.47	0.14	0.30	0.00	0.14	0.39	0.08	0.00	T	T	3.8
DEVILS DEN SLF	2.92	0.00	0.00	T	0.25	0.35	1.79	0.16	0.17	0.00	0.20	0.00	T	0.00	0.09	T	3.0
DIGIORGIO	2.08	0.00	0.02	0.11	0.10	0.46	1.04	0.02	0.10	0.00	0.18	0.00	0.05	0.00	0.00	T	1.9
DINUBA ALTA ID	3.96	0.00	0.01	0.05	0.04	0.67	1.56	0.24	0.71	0.00	0.15	0.34	0.19	0.00	0.00	0.36	4.2
FIVE POINTS DIENER	2.63	0.00	0.00	0.03	0.04	0.56	1.61	0.14	0.06	0.00	0.06	0.13	T	0.00	0.00	0.17	2.1
FOUNTAIN SPRINGS FS	4.92	0.00	0.00	0.05	0.00	0.55	3.27	0.38	0.38	0.01	0.19	0.05	0.04	0.00	0.00	0.00	4.6
FRESNO CO WESTSIDE FD	1.77	0.00	0.00	T	0.04	0.15	1.47	0.06	0.03	0.00	0.02	0.00	0.00	0.02	0.00	0.12	1.9
GIN YARD	1.97	0.00	0.00	0.02	0.18	0.12	1.42	0.05	T	0.00	0.01	0.00	0.07	0.00	0.00	T	1.9
HANFORD REFINERY	3.66	0.00	0.00	0.02	0.00	0.41	2.20	0.04	0.40	0.00	0.23	0.02	0.34	0.00	0.00	0.28	3.9
HURON RCH	1.98	0.00	0.00	0.00	T	0.30	1.41	0.12	0.06	0.00	0.03	0.00	0.02	0.00	0.00	0.10	2.0
IVANHOE ID	6.00	0.00	0.00	0.04	0.03	1.02	3.03	0.28	0.88	0.00	0.10	0.58	0.04	T	0.00	0.00	5.9
KETTLEMAN HILLS	2.00	0.00E	0.00E	0.00E	0.00	0.19	1.47	0.25	0.09	0.00	0.00	0.00	0.00	0.04	0.00	0.05	2.0
KINGSBURG 2 S	4.92	0.00	0.00E	0.03	0.03	0.52	2.72	0.18	0.70	0.00	0.25	0.22	0.27	0.00	0.00	T	4.8
MAGUNDEN	2.27	0.00	0.08	0.01	0.06	0.13	1.34	0.00	0.18	0.00	0.14	0.00	0.33	0.00	0.00	0.00	2.1
MENDOTA MURIETTA RCH	1.85	0.00E	T	T	0.02	0.12	1.20	0.31	0.11	0.00	0.09	0.00	T	T	0.00	0.00	1.8
NORTH BELRIDGE	1.47	0.00	0.00	T	0.00	0.06	1.08	0.14	0.08	0.00	0.06	0.00	0.05	0.00	0.06	0.00	1.9
OILFIELD FS	2.02	0.00	0.00	T	0.07	0.23	1.48	0.10	0.10	0.00	0.03	0.00	T	0.00	0.00	0.17	2.1
OLD RIVER 3 W	1.79	T	0.00	0.09	0.06	0.14	1.22	0.08	0.11	T	0.04	0.00	0.05	0.00	T	0.01	1.7
PORTERVILLE 3 W	4.61	0.00	0.00	0.00	0.03	0.43	3.16	0.37	0.32	0.00	0.16	0.09	0.05	0.00	0.00	0.16	4.7
RECTOR	5.52	0.00	0.00	T	0.05	0.83	2.94	0.47	0.52	0.00	0.15	0.43	0.13	0.00	0.00	0.03	5.5
REEDLEY MVFD	4.68	0.00	0.00	0.06	T	0.48	2.63	0.37	0.78	0.00	0.11	0.15	0.10	0.00	0.00	0.14	4.7
RIVERDALE	2.39	0.00	0.00	T	0.06	0.59	1.24	0.18	0.03	0.00	0.20	0.07	0.02	0.00	0.00	0.08	2.4
SANGER 1 NE	6.09	0.00	T	0.13	T	0.68	3.36	0.09	0.84	0.00	0.19	0.35	0.45	0.00	0.00	0.16	6.1
SANGER RS	5.74	0.00	0.00	0.00	0.02	0.56	2.85	0.69	0.41	0.00	0.17	0.86	0.00	0.00	0.00	0.18	5.7
SAN JOAQUIN	3.36	0.00	0.00	T	0.00	0.29	1.23	0.16	0.37	0.00	0.16	0.96	0.19	0.00	0.00	0.16	3.5
SOUTH BELRIDGE	1.85	0.00	0.00	0.00	0.20	0.03	1.16	0.11	0.18	0.00	0.00	0.00	0.17	0.00	T	T	1.6
SOUTH LAKE FARMS HDQ	2.19	0.00	T	0.00	T	0.16	1.48	0.18	0.29	0.00	0.04	0.02	0.02	0.00	0.00	T	2.1
TRANQUILLITY GLOTZ	2.83	T	T	0.03	T	0.26	1.25	0.22	0.18	T	0.21	0.68	T	T	0.00	0.13	2.9
TULARE	4.31	0.00	0.00	T	0.01	0.56	2.96	0.19	0.41	0.00	0.10	0.01	0.07	0.00	0.00	0.00	4.3
U S COTTONFIELD STA	2.61	0.01	0.12	0.01	0.01	0.50	1.46	0.00	0.20	0.00	0.12	0.04	0.14	0.00	0.00	0.00	2.4
VESTAL	5.33	0.00	0.02	0.02	0.03	0.46	2.95	0.13	0.36	0.00	0.16	0.71	0.49	0.00	0.00	T	5.2
WILBUR DITCH	2.11	0.00	0.00	0.00	0.00	0.16	1.31	0.18	0.28	0.00	0.05	0.00	0.13	0.00	0.00	T	2.1
KINGS RIVER C1																	
BENNER RANCH	14.88	0.07	T	0.24	0.31	3.38	6.55	0.87	1.50	T	1.03	0.43	0.50	T	0.05	0.27	14.8
BLASINGAME	11.78	0.00	0.00	0.28	0.05	2.02	6.81	0.71	0.91	0.00	0.43	0.04	0.53	T	0.00	0.58	12.0
PINEHURST	17.98	0.06	0.00	0.28	0.51	3.50	8.11	1.18	1.68	0.00	1.46	0.44	0.76	0.00	0.01	0.33	17.9
SQUAW VALLEY-FRESNO	7.08	0.09	0.00	0.00	0.55	1.60	1.29	0.78	1.20	0.00	0.97	0.40	0.20	0.00	0.00	0.26	7.2
TRIMMER R S	13.86	0.00	0.00	0.43	0.04	2.54	6.92	1.05	1.59	0.00	1.05	0.00	0.24	0.00	0.00	0.37	13.8
WISHON LAKE	22.46	0.65	0.02	0.81	0.02	3.99	8.62	2.19	1.61	0.01	2.78	0.16	1.60	0.00	2.14	1.71	24.8
KAWEAH RIVER C2																	
KAWEAH PH 3	13.40	0.09	0.00	0.04	0.20	2.63	6.15	1.10	1.22	0.00	0.51	0.69	0.77	0.00	0.00	0.73	14.0
MIRAMONTE HONOR CAMP	13.29	T	0.00	0.40	0.39	3.15	6.36	0.95	0.66	T	0.99	0.30	0.09	T	T	0.21	13.1
TERMINUS DAM	7.22	T	T	0.07	0.13	1.08	3.89	0.44	0.80	0.00	0.41	0.39	0.01	0.00	0.00	0.04	7.1
WHITAKER FOREST	-	0.15	0.00	0.74	-	4.36	-	-	-	0.00	2.08	0.49	1.23	T	0.42	0.74	-
TULE RIVER C3																	
SUCCESS DAM	5.91	0.00	T	0.04	0.07	0.78	3.78	0.30	0.44	0.00	0.25	0.22	0.03	0.00	0.03	0.02	5.9
TULE RIVER INTAKE	13.95	0.28	0.00	0.16	0.78	2.25	7.27	0.90	1.33	0.00	0.98	0.00	0.00	0.00	0.04	0.05	13.6
TULE RIVER PH	10.38	0.24	0.00	0.03	0.20	1.86	5.37	0.64	1.00	0.00	0.69	0.32	0.03	0.00	0.47	0.02	10.6
GREENHORN MTN C4																	
WOODY	5.21	T	0.21	0.14	0.26	0.51	2.83	0.10	0.52	0.00	0.39	0.23	0.02	0.00	0.11	0.00	4.9
KERN RIVER C5																	
ISABELLA DAM	5.77	0.06	0.54	0.00	0.05	0.47	3.04	T	0.39	0.00	0.37	0.05	0.80	0.00	0.34	0.03	5.5
KERN CANYON	3.33	0.00	0.16	0.00	0.00	0.06	2.50	0.00	0.11	0.00	0.22	0.00	0.28	0.00	0.16	0.00	3.3
KERN R 3 INTAKE SCE	8.60	0.47	0.56	0.04	0.17	0.94	4.56	0.10	0.78	0.00	0.79	0.00	0.19	0.00	0.42	0.05	8.0
ONYX	3.11	0.10	0.00	0.00	0.00	0.30	1.91	0.00	0.30	0.00	0.16	0.00	0.38	0.00	0.04	0.00	3.0
TEN HIGH MINE		0.00	0.15	0.20	RE												
TEHACHAPI MOUNTAINS C6																	
CUMMINGS VALLEY 2	-	0.00	0.00	0.00	0.00	0.00	1.85	-	-	-	-	-	-	-	-	-	-
KEENE	6.74	0.00	0.31	0.04	0.66	0.53	3.03	0.00	0.39	0.00	1.22	0.00	0.56	0.00	0.11	0.02	6.5
MIL POTRERO	11.39	T	0.62	0.04	0.28	2.50	6.41	T	0.16	T	0.57	T	0.81	T	0.25	0.11	11.0
WALKER BASIN	7.16	0.00	0.16	0.01	0.28	0.74	3.47	0.06	0.42	0.00	0.90	0.01	1.11	0.00	0.40	0.00	7.3
EDMONSTON P P	6.24	0.01	0.00	0.32	0.37	0.59	4.14	0.07	0.04	0.00	0.59	0.00	0.11	0.00	0.01	0.01	5.9
TULARE L BAS WESTSIDE C7																	
ANNETTE	5.07E	0.00E	0.00E	0.00E	0.09	0.57	3.56	0.55	0.10E	0.00E	0.20E	0.00E	0.00E	T E	0.00E	0.00E	5.0
AVENAL 8 SW	6.01	0.00	0.00	0.00	0.04	0.35	4.43	0.62	0.39	0.00	0.18	0.00	0.00	0.00	0.00	0.05	6.0
AVENAL 6 SSW	4.37	0.00	0.00	T	0.14	0.53	2.91	0.48	0.26	0.00	0.05	0.00	0.00	0.05	0.00	0.05	4.4
CHICO RANCHO	6.61	0.00	0.00	T	0.13	0.47	4.88	0.32	0.28	0.00	0.28	T	0.25	T	T	0.08	6.6
CHOLAME TWISSELMAN	5.36	0.00	0.00	0.02	0.23	0.57	3.43	0.59	0.20	0.00	0.28	0.00	0.04	0.05	0.00	0.00	5.3
COALINGA ROBERTS RCH	7.50	0.00	0.00	0.00	0.00	0.73	5.52	0.49	0.34	0.00	0.42	0.00	0.00	0.00	0.00	0.00	7.5
DOMENGINE RCH	-	0.00	0.00	0.08	-	-	-	-	-	-	-	-	-	-	-	-	-
FELLOWS	3.17	0.00	0.00	0.03	0.34	0.27	1.79	0.00	0.07	0.00	0.01	0.00	0.66	0.00	0.00	T	3.1
MARICOPA FS	2.42	0.00	0.00	0.00	0.45	0.05	1.64	0.06	0.06	0.00	0.04	0.00	0.12	0.00	0.00	0.00	2.4
MCKITTRICK FS	2.17	0.00	0.02	0.02	0.14	0.20	1.12	0.10	0.16	0.00	T	0.00	0.41	0.00	0.00	0.00	2.1
TAFT KTKR	2.01	0.00	0.00	0.01	0.00	0.15	1.43	0.04	0.09	0.00	T	0.00	0.29E	0.00	0.00	0.04	2.0

TABLE A-3

STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1971-72 Season		
		Measurement Period		Precipitation In Inches
SAN JOAQUIN RIVER BASIN				
STANISLAUS RIVER B3				
HIGHLAND LAKES	DEPT OF WATER RESOURCES	6-30-71	7-12-72	28.10
LAKE ALPINE	DEPT OF WATER RESOURCES	6-30-71	7-12-72	37.60
TUOLUMNE RIVER B4				
HUCKLEBERRY LAKE	HETCH HETCHY WATER SUPPLY	9-19-71		RE
TUOLUMNE MEADOW	DEPT OF WATER RESOURCES	6-29-71	7-11-72	26.40
MERCED RIVER B5				
OSTRANDER LAKE	DEPT OF WATER RESOURCES	7-19-71	7-19-72	49.1
SNOW FLATS	DEPT OF WATER RESOURCES	6-29-71	7-11-72	43.95
SAN JOAQUIN RIVER B7				
CHIQUITO CREEK	DEPT OF WATER RESOURCES	6-28-71	7-10-72	38.65
CLOVER MEADOW	DEPT OF WATER RESOURCES	6-28-71	7-10-72	38.45
KAISER MEADOW	SO CALIF EDISON COMPANY	9-29-71	9-25-72	32.52
MAMMOTH POOL	SO CALIF EDISON COMPANY	9-30-71	9-22-72	25.99
ROSE MARIE MEADOW	SO CALIF EDISON COMPANY	10- 5-71	9-14-72	32.62
VERMILION VALLEY	SO CALIF EDISON COMPANY	9-29-71	9-25-72	19.43
TULARE LAKE BASIN				
KINGS RIVER C1				
BARTON FLAT	U S CORPS OF ENGINEERS	9-13-71	9-11-72	16.00
DUSY BENCH	DEPT OF WATER RESOURCES	9-11-71	9- 6-72	19.97
MORAINE CREEK	U S CORPS OF ENGINEERS	9-15-71	9-14-72	22.05
RATTLESNAKE CREEK	U S CORPS OF ENGINEERS	9-14-71	9-12-72	35.55
STATE LAKES	U S CORPS OF ENGINEERS	10-26-71	9-13-72	13.45
SUMMIT MEADOW	DEPT OF WATER RESOURCES	7- 1-71	7-17-72	33.90
VIDETTE MEADOW	U S CORPS OF ENGINEERS	9-15-71	9-13-72	21.55
WEST WOODCHUCK	U S CORPS OF ENGINEERS	10-26-71	9-12-72	13.60
KAWEAH RIVER C2				
ATWELL	U S CORPS OF ENGINEERS	9-15-71	8-21-72	23.85
BEARTRAP MEADOW	U S CORPS OF ENGINEERS	9-13-71	9-12-72	30.15
GIANT FOREST	U S CORPS OF ENGINEERS	9-15-71	9-12-72	25.75
HOCKETT MEADOW	U S CORPS OF ENGINEERS	9-29-71	8-24-72	21.15
TULE RIVER C3				
EAGLE CREEK	U S CORPS OF ENGINEERS	9-28-71	9-26-72	20.05
HOSSACK (RADIO)	U S CORPS OF ENGINEERS	9-27-71	9-26-72	23.35
MOUNTAIN HOME 2	U S CORPS OF ENGINEERS	9-16-71	9-25-72	19.35
ROGERS CAMP	U S CORPS OF ENGINEERS	9-28-71	9-27-72	18.50
KERN RIVER C5				
CHAGOOPA	U S CORPS OF ENGINEERS	9-29-71	8-24-72	15.00
CRABTREE MEADOW	DEPT OF WATER RESOURCES	9-17-71	9-10-72	13.98
MONACHE MEADOW	DEPT OF WATER RESOURCES	9-14-71	8-30-72	11.40
PASCOES	U S CORPS OF ENGINEERS	8-19-71	9-27-72	21.20
PORTUGUESE MEADOW	U S CORPS OF ENGINEERS	8-16-71	8- 7-72	24.55
TUNNEL R S	DEPT OF WATER RESOURCES	9-14-71	9- 9-72	16.83
WET MEADOW	U S CORPS OF ENGINEERS	8-19-71	9-27-72	21.95
TULARE LAKE BASIN WESTSIDE C7				
OILFIELDS JOAQUIN RDG	DEPT OF WATER RESOURCES	7-15-71	7-27-72	3.81

RE - Record ends.
NR - Data not received before publication.
INC - Incomplete data.

APPENDIX B

SURFACE WATER MEASUREMENTS

INTRODUCTION

This appendix presents surface water data for the 1972 water year, which is from October 1, 1971 to September 30, 1972. The data presented consist of daily mean discharge, daily mean gage height, gaging station location, diversion quantities, imported water to report area, exported water from report area, summary tables of monthly and annual unimpaired runoff from major streams, and corrections and revisions to previously published reports.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits further identify each station.

HYDROGRAPHIC AREA B	HYDROGRAPHIC AREA C
SAN JOAQUIN RIVER BASIN	TULARE LAKE DRAINAGE BASIN
B0 - San Joaquin Valley Floor	C0 - Tulare Lake Valley Floor
B3 - Stanislaus River	C1 - Kings River
B4 - Tuolumne River	C2 - Kaweah River
B5 - Merced River	C3 - Tule River
B6 - Fresno-Chowchilla Rivers	C4 - Greenhorn Mountains
B7 - San Joaquin River	C5 - Kern River
B8 - San Joaquin Valley on West Side	C6 - Tehachapi Mountains
	C7 - Tulare Lake Basin on West Side

In addition to data collected and published by the Department of Water Resources in this appendix, the U. S. Geological Survey collects and publishes data on many additional gaging stations for the same report area. This work is done under a federal-state cooperative contract, or through cooperative arrangements with other local or government agencies. The data published in the following reports together with this report present a comprehensive analysis of the water resources for the area:

1. Water Resources Data for California
   Part 1, Surface Water Records
   Volume 2: Northern Great Basin and Central Valley
   United States Department of the Interior
   Geological Survey
   Prepared in cooperation with the California Department of Water Resources and with other agencies.

2. Kings River Watermaster Report
   Kings River Water Association

3. Water Supply
   Fresno Field Division, U. S. Bureau of Reclamation

4. Bulletin 120, Water Conditions in California, Fall Issue
   Department of Water Resources

5. Bulletin 157, Index of Stream Gaging Stations In and Adjacent to California, 1970
   Department of Water Resources
   This index contains the period of record--with number of years missing--and more information for 800± stations in the San Joaquin Valley area. The index also identifies the agency from which a particular record may be obtained.

DAILY MEAN DISCHARGE, DAILY MEAN GAGE HEIGHT

	Page: Daily Mean Discharge	Daily Mean Gage Height
Bean Creek near Coulterville	61	
Bear Creek below Bear Reservoir	54	
at McKee Road near Merced	55	
at Merced Irrigation District West Boundary	56	
Buena Vista Creek near Taft	91	
Burns Creek below Burns Reservoir	57	
Campbell-Moreland Ditch above Porterville	83	
Chowchilla River near Raymond	49	
West Fork near Mariposa	48	
Cross Creek below Lakeland Canal #2	79	
Delta-Mendota Canal near Tracy	40	
to Mendota Pool	41	
Dry Creek near Modesto	72	111
Eastside Bypass near El Nido	50	
Fresno River Eight Miles West of Madera	47	
Lewis Fork near Oakhurst	44	
Friant-Kern Canal Delivery to Porter Slough	80	
to Tule River	81	
Hubbs-Miner Ditch at Porterville	88	
James Bypass near San Joaquin	39	
Kern River near Bakersfield	90	
Kings River, South Fork, below Empire Weir #2	78	
Mariposa Creek near Catheys Valley	51	
below Mariposa Reservoir	52	
Maxwell Creek at Coulterville	62	
Merced River at Cressey	65	105
below Snelling	64	104
Miami Creek at Highway 49 near Ahwahnee	46	
near Oakhurst	45	
Mustang Creek near Ballico	66	
Orestimba Creek near Crows Landing	67	
Owens Creek below Owens Reservoir	53	
Panoche Drain near Dos Palos	59	
Poplar Ditch near Porterville	87	
Porter Slough at Porterville	84	
Porter Slough Ditch at Porterville	85	
Salt Slough near Stevinson	60	
San Joaquin River at Crows Landing Bridge	68	107
near Dos Palos	43	
at Fremont Ford Bridge	63	103
below Friant	38	101
at Maze Road Bridge	74	114
near Mendota	42	
near Newman		106
at Patterson Bridge	69	108
near Stevinson	58	102
near Vernalis	77	118
Stanislaus River at Koetitz Ranch	76	117
at Orange Blossom Bridge	75	115
at Ripon		116
Tulare Lake		100
Tule River below Porterville	82	
Tuolumne River at Hickman Bridge	71	110
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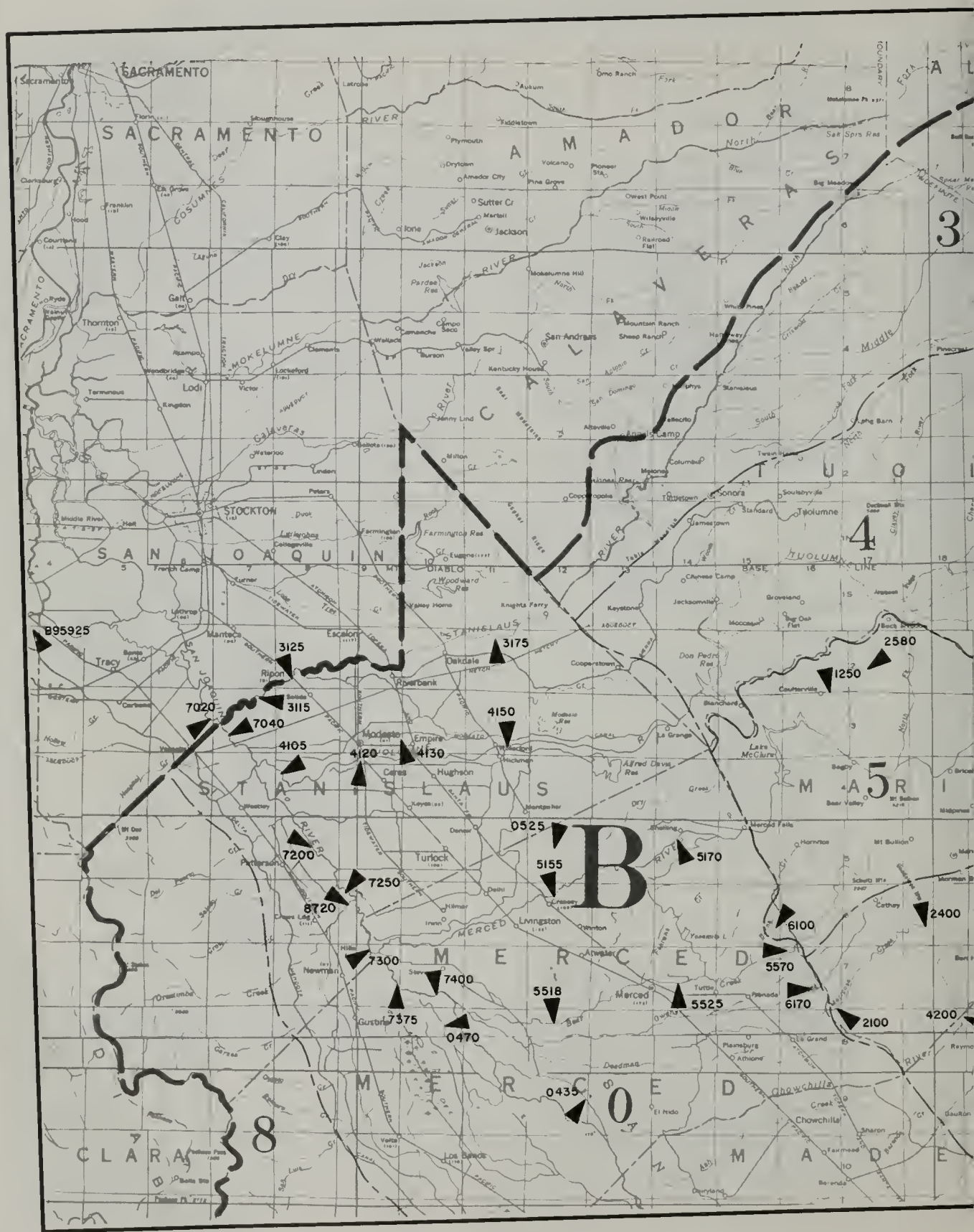
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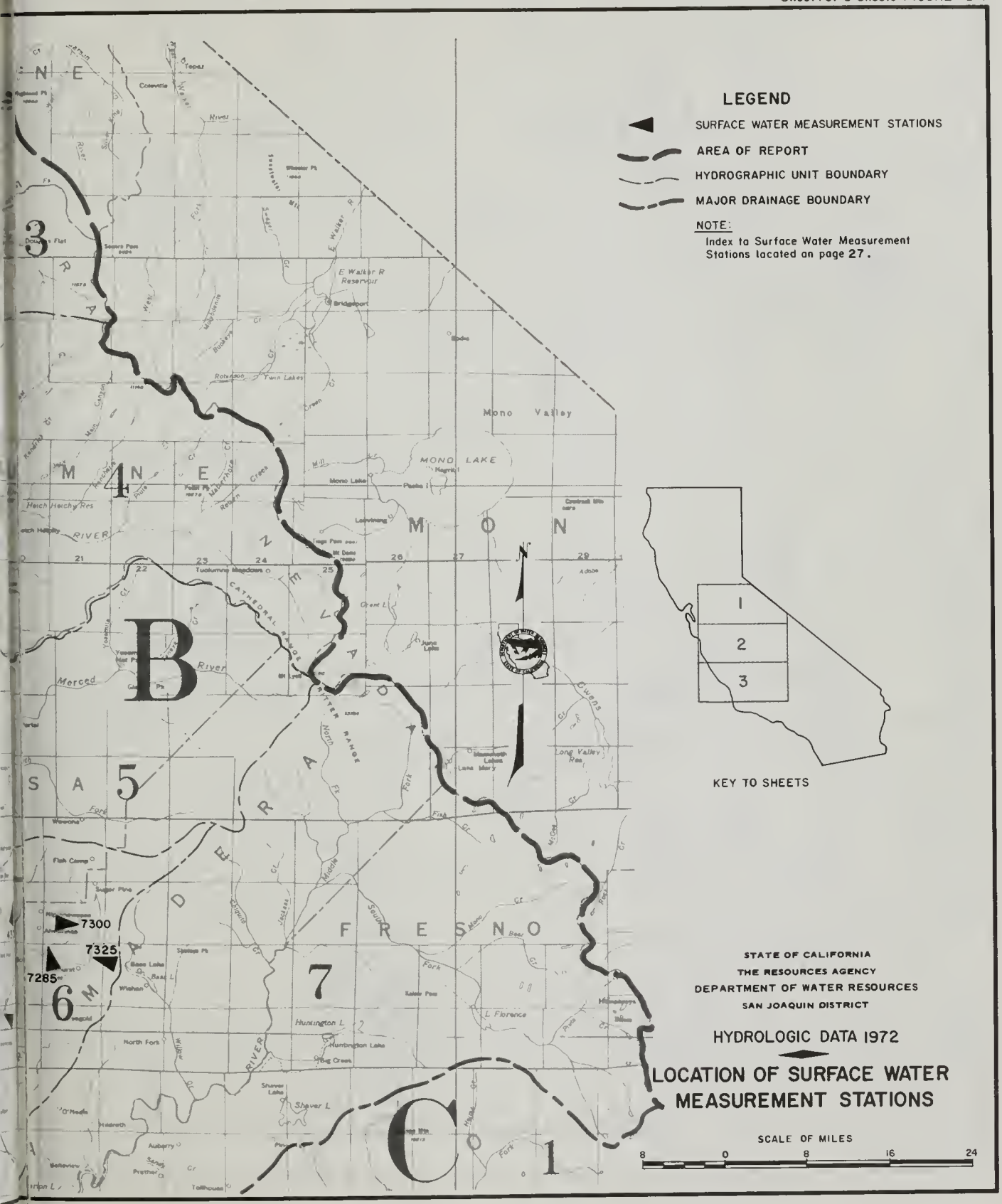
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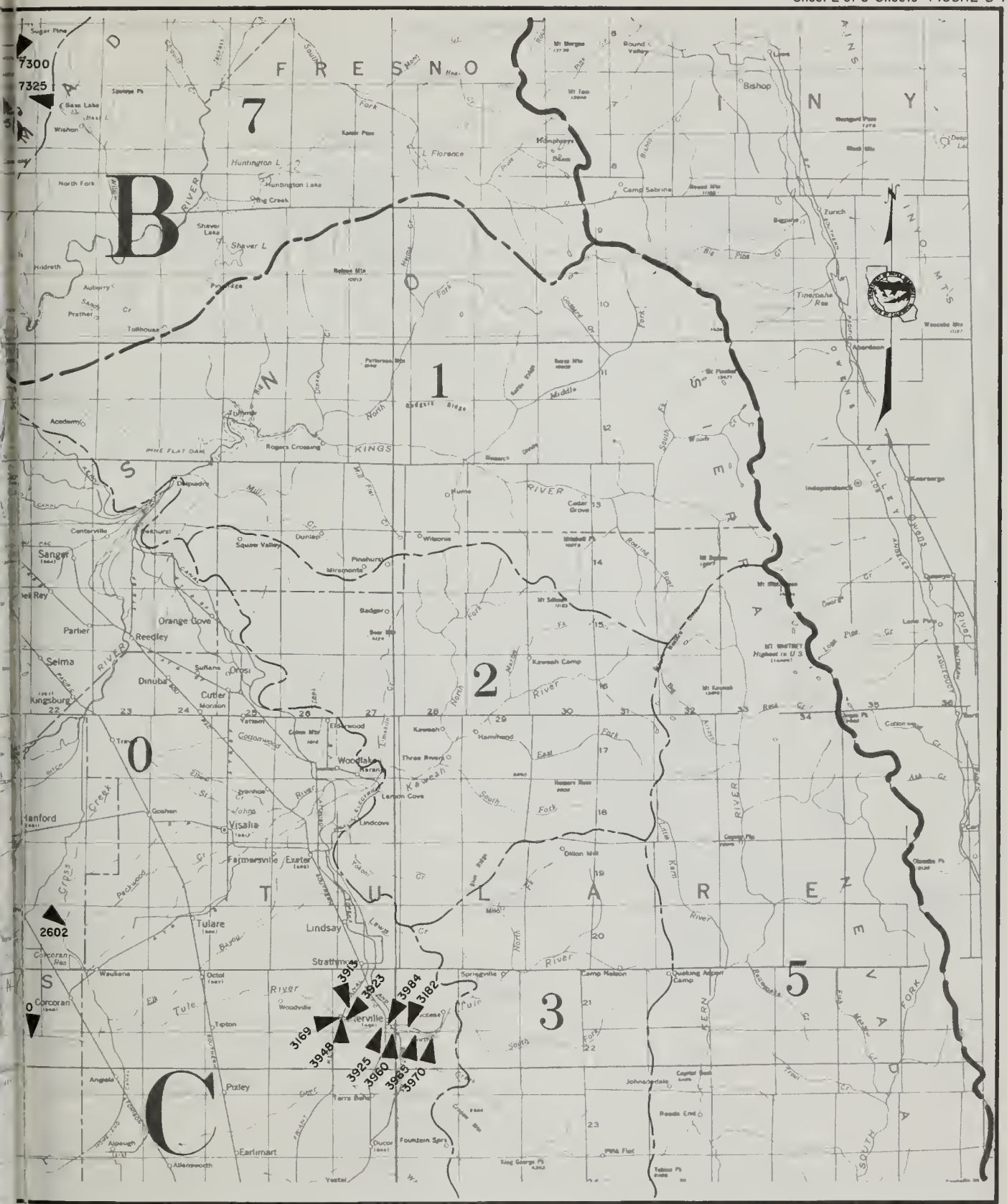
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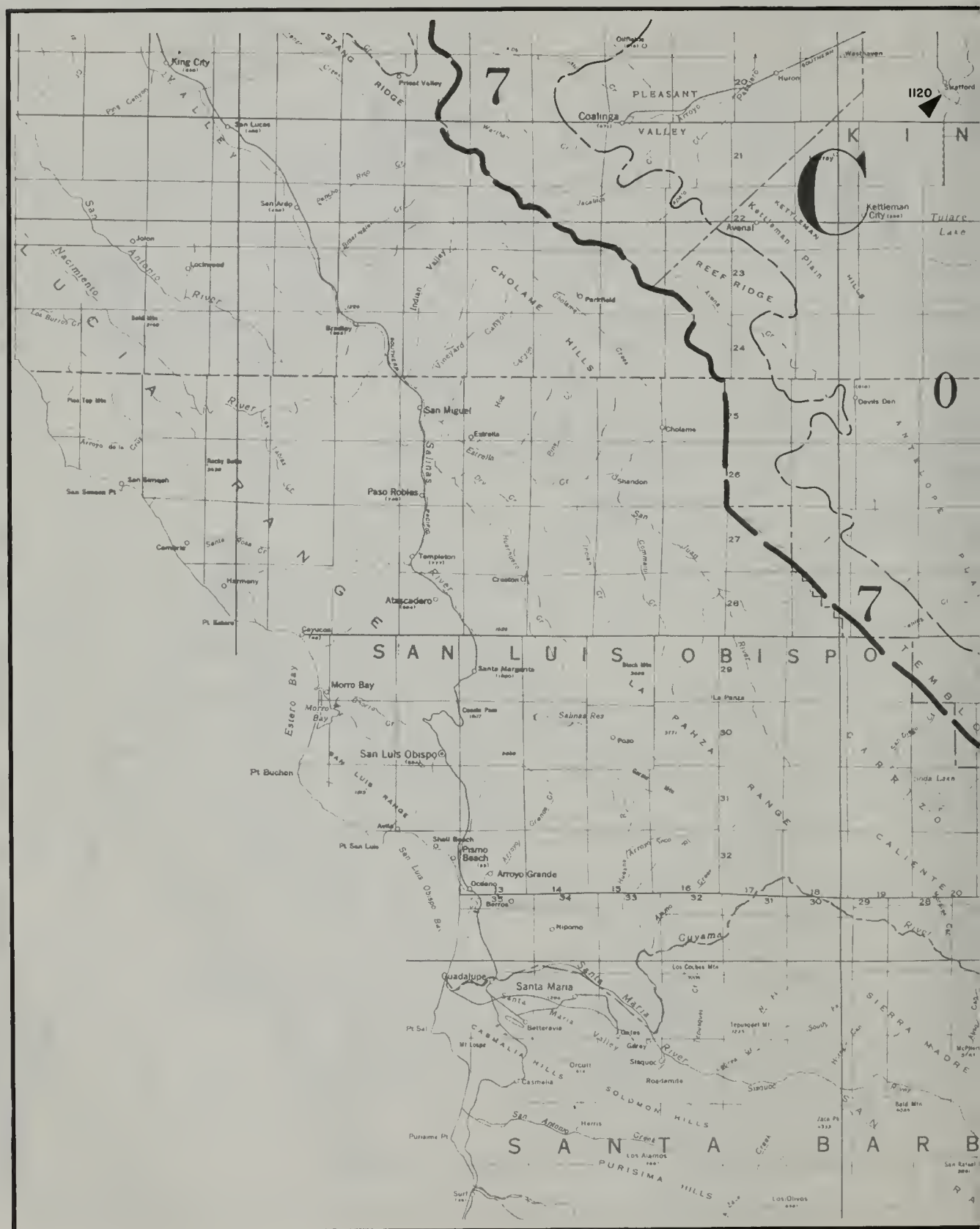
Station Number		Page: Daily Mean Discharge	Page: Daily Mean Gage Height
	HYDROGRAPHIC AREA B		
	SAN JOAQUIN VALLEY FLOOR		
B00435	Eastside Bypass near El Nido	50	
0470	Salt Slough near Stevinson	60	
0525	Mustang Creek near Ballico	66	
0770	Delta-Mendota Canal to Mendota Pool	41	
0975	Panoche Drain near Dos Palos	59	
3115	Stanislaus River at Koetitz Ranch	76	117
3125	at Ripon		116
3175	at Orange Blossom Bridge	75	115
4105	Tuolumne River at Tuolumne City	73	113
4120	at Modesto		112
4130	Dry Creek near Modesto	72	111
4150	Tuolumne River at Hickman Bridge	71	110
4175	at La Grange Bridge	70	109
5155	Merced River at Cressey	65	105
5170	below Snelling	64	104
5518	Bear Creek at Merced Irrigation District West Boundary	56	
5525	at McKee Road near Merced	55	
5570	below Bear Reservoir	54	
6170	Owens Creek below Owens Reservoir	53	
6725	Fresno River Eight Miles West of Madera	47	
7020	San Joaquin River near Vernalis	77	118
7040	at Maze Road Bridge	74	114
7200	at Patterson Bridge	69	108
7250	at Crows Landing Bridge	68	107
7300	near Newman		106
7375	at Fremont Ford Bridge	63	103
7400	near Stevinson	58	102
7610	near Dos Palos	43	
7710	near Mendota	42	
7885	below Friant	38	101
8720	Orestimba Creek near Crows Landing	67	
	MERCED RIVER		
B51250	Maxwell Creek at Coulterville	62	
2580	Bean Creek near Coulterville	61	
6100	Burns Creek below Burns Reservoir	57	
	FRESNO - CHOWCHILLA RIVERS		
B62100	Mariposa Creek below Mariposa Reservoir	52	
2400	near Catheys Valley	51	
4200	Chowchilla River near Raymond	49	
4300	West Fork, near Mariposa	48	
7285	Miami Creek at Highway 49 near Ahwahnee	46	
7300	near Oakhurst	45	
7325	Fresno River, Lewis Fork near Oakhurst	44	
	SACRAMENTO - SAN JOAQUIN DELTA		
B95925	Delta-Mendota Canal near Tracy	40	
	HYDROGRAPHIC AREA C		
	TULARE LAKE VALLEY FLOOR		
C00200	James Bypass near San Joaquin	39	
1120	Kings River, South Fork, below Empire Weir #2	78	
2602	Cross Creek below Lakeland Canal #2	79	
3110	Tulare Lake		100
3169	Tule River below Porterville	82	
3182	Porter Slough at Porterville	84	
3913	Friant-Kern Canal Delivery to Porter Slough	80	
3923	to Tule River	81	
3925	Hubbs-Miner Ditch at Porterville	88	
3948	Woods-Central Ditch near Porterville	89	
3960	Poplar Ditch near Porterville	87	
3965	Vandalia Ditch near Porterville	86	
3970	Campbell-Moreland Ditch above Porterville	83	
3984	Porter Slough Ditch at Porterville	85	
5150	Kern River near Bakersfield	90	
7120	Buena Vista Creek near Taft	91	


SACRAMENTO
SAN JOAQUIN
STANISLAUS
TUOLUMNE
MARIPOSA
MADERA
MERCED
CLARA
B
895925
3125
3175
2580
1250
7020
3115
7040
4150
4105
4120
4130
0525
5155
5170
7200
7250
8720
6100
2400
7300
7400
5570
5518
5525
6170
2100
4200
7375
0470
0435
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4
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LEGEND
SURFACE WATER MEASUREMENT STATIONS
AREA OF REPORT
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MAJOR DRAINAGE BOUNDARY
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DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1972
LOCATION OF SURFACE WATER MEASUREMENT STATIONS
SCALE OF MILES
8 0 8 16 24
7300
7325
7285
Mono Valley
MONO LAKE
E Walker R Reservoir
Bridgeport
Lee Vining
Mono Lake
Tioga Pass
Tuolumne Meadows
Grant L
June Lake
Merced River
Yosemite Nat Park
Cathedral Range
Mammoth Lakes
Lake Mary
Long Valley Res
Fish Camp
Wawona
Bass Lake
Whiskey
Huntington L
Huntington Lake
Big Creek
North Fork
Shaver Lake
Shaver L
L Florence
Auberry
Prather
Tollhouse
Millerton L
Hidden Dam
Hensley L
Redinger L
Pine Flat
Pine Flat Res
Kings River
Fresno
Madera
Mariposa
Tulare
Kern
Inyo
Mono
Alpine
Tuolumne
Stanislaus
Calaveras
Amador
Sierra
Nevada
Placer
Eldorado
Alpine
Sacramento
Solano
Napa
Sonoma
Lake
Colusa
Glenn
Tehama
Shasta
Trinity
Humboldt
Del Norte
Siskiyou
Modoc
Lassen
Plumas
Butte
Yuba
Sutter
Yolo
Contra Costa
Alameda
San Joaquin
Stanislaus
Merced
Madera
Fresno
Kings
Tulare
Kern
San Luis Obispo
Santa Barbara
Ventura
Los Angeles
San Bernardino
Riverside
Orange
San Diego
Imperial


MERCED
MADERA
FRESNO
KINGS
SAN BENITO
MONTEREY
SAN LUIS OBISPO
7250
8720
7300
Newman
7400
7375
0470
5155
5518
0435
6100
5525
5570
6170
2100
2400
4300
4200
7610
0975
6725
Madera
7710
0770
0200
1120
Livingston
Merced
Atwater
Los Banos
Dos Palos
Chowchilla
Fresno
Kerman
Coalinga
Hollister
Soledad
Greenfield
King City
PANOCHE HILLS
SAN BENITO RANGE
SALINAS VALLEY
MUSTANG RIDGE
PLEASANT VALLEY
CHOLAME
REEF RIDGE
KETTLEMAN PLAIN
Kettleman City
SAN JOAQUIN
Tulare Lake


7300
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3970
F R E S N O
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C
Sugar Pine
Bass Lake
Wishon
Huntington L
Huntington Lake
North Fork
Shaver Lake
Shaver L
Auberry
Prather
Tollhouse
Academy
Tivy Mtn
Pine Flat Dam
Rogers Crossing
Centerville
Fresno
Sanger
Del Rey
Parlier
Reedley
Orange Cove
Selma
Dinuba
Sultana
Orosi
Cutler
Monson
Kingsburg
Hanford
Visalia
Goshen
Farmersville
Exeter
Tulare
Lindsay
Strathmore
Woodlake
Lemon Cove
Lindcove
Three Rivers
Kaweah
Hammond
Elderwood
Cottonwood
Waukena
Corcoran
Corcoran Res
Octol
Tipton
Woodville
Pixley
Earlimart
Alpaugh
Allensworth
Angiola
Terra Bella
Ducor
Fountain Springs
Yeatal
Springville
Camp Nelson
Quaking Aspen Camp
Johnsondale
Capital Peak
Reeds End
Pine Flat
Tobias Pk
Bishop
Round Valley
Mt Morgan
Mt Tom
Humphreys Basin
L Florence
Camp Sabrina
Big Pine
Zurich
Timberline Res
Aberdeen
Wheeler Mts
Mt Pinchot
Mt Whitney
Highest in U S
Independence
Lone Pine
Cottonwood
Owens Valley
Owens River
Sierra Nevada
South Fork
Kern River
Kaweah River
Kings River
Mill Flat Cr
Dunlap
Squaw Valley
Pinehurst
Miramonte
Wilsonia
Hume
Cedar Grove
Kaweah Camp
Badger
Roaring River
Middle Fork
North Fork
South Fork
East Fork
Big Pine Cr
Deer Cr
Lone Pine Cr
Oak Flat
Dillon Mill
Mineral King
Hockers Rest
Monson
Patterson Mtn
Bogus Mtn
Wood Mtn
Redbox Mtn
Rodgers Ridge
Dinkey Cr
Bear Mtn
Elderwood
Tehipite Valley
Kaweah Peaks
Mt Silliman
Mt Kaweah
Mt Stewart
Mt Whitney
Olancha Pk
Cottonwood Cr
Lone Pine Cr
Tuttle Cr
Deep Lake


King City
San Lucas
San Ardo
Jolon
Lockwood
Bradley
San Miguel
Estrella
Paso Robles
Templeton
Atascadero
Cholame
Shandon
Parkfield
Devils Den
Coalinga
Huron
Kettleman City
Avenal
Morro Bay
San Luis Obispo
Pismo Beach
Arroyo Grande
Guadalupe
Santa Maria
Orcutt
Casmalia
Los Alamos
Los Olivos
Solomon Hills
Purisima Hills
Cuyama
Sierra Madre
Caliente Range
La Panza Range
Temblor Range
Carrizo Plain
Tulare Lake
Kettleman Plain
Reef Ridge
Cholame Hills
Casmalia Hills
Pleasant Valley
Salinas River
Cuyama River
Santa Maria River
Estero Bay
San Luis Obispo Bay
Pt Buchon
Pt San Luis
Pt Sal
Pt Estero
Purisima Pt
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SAN LUIS OBISPO
SANTA BARB


2602
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7120
BAKERSFIELD
Oildale
Wasco
Shafter
Delano
McFarland
Earlimart
Pixley
Tulare
Lindsay
Strathmore
Porterville
Arvin
Lamont
Weed Patch
DeGiorgio
Tehachapi
Mojave
Rosamond
Lancaster
Palmdale
Edwards AFB
Ridgecrest
Inyokern
Trona
Barstow
Victorville
Lake Isabella
Kernville
Wofford Heights
Bodfish
Onyx
Weldon
Caliente
Keene
Frazier Park
Lebec
Gorman
Castaic
Santa Clarita
Valencia
Newhall
Saugus
Agua Dulce
Acton
Palmdale
Lancaster
Rosamond
Mojave
Tehachapi
Arvin
Lamont
Weed Patch
Buttonwillow
Taft
Maricopa
Ventucopa
Santa Maria
Los Alamos
Lompoc
Solvang
Santa Ynez
Buellton
Gaviota
Goleta
Santa Barbara
Carpinteria
Ventura
Oxnard
Port Hueneme
Camarillo
Thousand Oaks
Simi Valley
Moorpark
Fillmore
Santa Paula
Ojai
Piru
Fillmore
Santa Clara River
Sespe Creek
Cuyama River
Cuyama
New Cuyama
Ventucopa
Los Alamos
Santa Maria River
Sisquoc River
Cuyama River
Salinas River
Nacimiento River
San Antonio River
Estrella River
Paso Robles
Templeton
Atascadero
San Luis Obispo
Arroyo Grande
Nipomo
Guadalupe
Santa Maria
Lompoc
Vandenberg AFB
Point Conception
Gaviota
Refugio
El Capitan
Goleta
Santa Barbara
Carpinteria
Ventura
Oxnard
Port Hueneme
Point Mugu
Channel Islands
Santa Cruz Island
Santa Rosa Island
San Miguel Island
Anacapa Island
Santa Barbara Island
San Nicolas Island
Catalina Island
Avalon
Two Harbors
Isthmus
Catalina
Santa Catalina Island
San Clemente Island
Dana Point
San Juan Capistrano
San Clemente
Laguna Beach
Newport Beach
Huntington Beach
Seal Beach
Long Beach
Los Angeles
Santa Monica
Malibu
Pacific Palisades
Topanga
Calabasas
Agoura Hills
Westlake Village

UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that occurs naturally at a point in a stream if there were: (1) no upstream controls such as dams or reservoirs; (2) no artificial diversions or accretions; and, (3) no change in ground water storage resulting from development. The computed natural or unimpaired runoff values are considered to be the flows that would occur if no impairments were upstream from the measurement points.

Table B-1 presents annual unimpaired runoff in percent of average for major streams.

Table B-2 presents monthly unimpaired runoff in percent of average for major streams.

The average unimpaired runoff is in thousands of acre-feet and was computed from the 50-year period October 1920 through September 1970.

TABLE B-1

ANNUAL UNIMPAIRED RUNOFF

In percent of average

Water Year	Stanislaus River Inflow to Melones	Tuolumne River Inflow to Don Pedro	Merced River Inflow to Exchequer	San Joaquin River Inflow to Millerton	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
Average Annual Runoff (a)	1085	1789	920	1659	5452	1568	404	133	629
1930-31	29	34	29	29	30	30	28	19	29
1931-32	125	118	121	123	121	133	129	104	111
1932-33	56	63	56	67	62	75	70	60	68
1933-34	39	45	39	42	42	42	32	15	37
1934-35	112	118	127	116	118	103	89	67	72
1935-36	122	121	125	112	119	120	121	128	119
1936-37	102	112	132	133	120	149	168	230	176
1937-38	188	192	226	222	206	209	216	267	205
1938-39	48	55	52	56	53	62	61	62	72
1939-40	129	124	119	113	121	114	127	158	111
1940-41	123	140	158	160	146	162	159	177	198
1941-42	137	133	140	136	136	128	122	102	119
1942-43	144	133	140	124	134	129	166	274	159
1943-44	62	73	74	76	72	75	78	77	92
1944-45	118	117	119	129	121	132	136	153	128
1945-46	109	105	102	104	105	103	88	71	103
1946-47	58	62	61	68	63	71	66	39	68
1947-48	83	79	75	73	77	64	65	48	53
1948-49	69	70	69	70	70	61	54	37	47
1949-50	99	87	78	79	85	82	75	47	69
1950-51	156	139	133	112	133	102	104	116	84
1951-52	177	167	170	171	171	182	204	241	221
1952-53	89	86	68	74	80	74	76	74	86
1953-54	82	81	73	79	79	83	76	67	80
1954-55	63	64	58	70	64	71	68	49	56
1955-56	174	177	182	178	178	162	180	157	139
1956-57	82	80	70	80	79	79	73	49	69
1957-58	155	148	153	159	153	157	159	168	167
1958-59	54	56	50	57	55	52	38	24	43
1959-60	55	59	52	50	54	45	45	36	44
1960-61	37	41	34	39	39	36	29	15	28
1961-62	92	99	101	116	103	118	98	65	104
1962-63	117	115	107	117	115	119	124	89	117
1963-64	60	64	49	56	58	54	57	45	50
1964-65	164	154	145	137	149	123	121	102	109
1965-66	65	73	73	78	73	77	61	35	64
1966-67	178	174	187	195	182	207	254	281	251
1967-68	59	57	46	52	54	51	54	48	73
1968-69	203	207	240	244	223	271	314	375	351
1969-70	122	108	95	87	102	82	88	91	94
1970-71 (c)	98	92	79	85	89	74	73	62	66
1971-72 (c)	71	64	63	66	66	54	42	26	39

(a) Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.
(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.
(c) Percent figures are preliminary values and subject to revision.

TABLE B-2

MONTHLY UNIMPAIRED RUNOFF

In percent of average[a]

Month		Stanislaus River Inflow to Melones	Tuolumne River Inflow to Don Pedro	Merced River Inflow to Exchequer	San Joaquin River Inflow to Millerton	San Joaquin River near Vernalis (b).	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
October	Percent	80	46	22	83	57	79	80	97	78
	Average	8	14	6	16	45	16	4	1	14
November	Percent	88	63	58	85	70	71	78	68	69
	Average	24	45	20	30	119	28	8	4	17
December	Percent	97	48	87	93	76	90	47	54	60
	Average	52	92	46	62	253	54	21	11	28
January	Percent	67	78	44	59	65	60	48	43	61
	Average	67	108	56	69	300	59	22	14	28
February	Percent	50	52	43	53	50	47	42	33	52
	Average	85	140	80	95	400	80	30	19	32
March	Percent	135	107	88	108	109	108	77	24	62
	Average	112	168	90	128	500	106	38	24	49
April	Percent	63	52	54	52	55	53	42	16	29
	Average	196	282	148	236	863	214	64	24	86
May	Percent	81	76	58	62	70	55	38	12	30
	Average	290	446	242	430	1408	429	105	22	145
June	Percent	43	62	82	58	61	43	27	7	29
	Average	179	352	168	369	1069	370	76	10	125
July	Percent	39	17	28	61	40	20	24	0	22
	Average	52	113	48	158	370	150	26	3	63
August	Percent	16	34	24	35	28	27	18	0	39
	Average	13	20	10	46	89	44	7	1	26
September	Percent	22	78	255	248	173	170	106	0	73
	Average	6	8	4	18	36	17	3	0	15
1971-72 Water Year	Percent	71	64	63	66	66	54	42	26	39
	Average	1085	1789	920	1659	5452	1568	404	133	629

(a) Percent figures are preliminary values and subject to revision. Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from the valley floor.

DAILY MEAN DISCHARGE

The streamflow data shown in Table B-3 are arranged, for each stream or stream system, in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (Merced River at Cressey) or well-known landmark (San Joaquin River at Fremont Ford Bridge).

The discharges estimated for periods of no record or invalid record, are shown with the letter "E". Also, qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based.

The discharge figures in this table have been rounded off as follows:

1. Daily flows - second-feet

0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Monthly means - second-feet

0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred

3. Monthly and yearly totals - acre-feet

0.0	- 9,999	nearest	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
1,000,000	- 9,999,999	"	Thousand

Those streamflow data received from cooperating agencies are published as received and do not necessarily adhere to the above criteria.

TABLE B-3
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	87	46	36	34	39	54	83	113	144	154	158	144	1
2	82	26	36	34	39	55	83	110	160	165	158	147	2
3	80	24	36	34	39	55	95	110	158	170	170	147	3
4	73	26	36	36	39	55	138	110	158	175	175	147	4
5	68	26	36	36	39	54	160	110	172	175	163	136	5
6	62	26	36	36	41	54	158	112	188	172	154	117	6
7	57	27	36	36	39	54	156	112	175	172	151	106	7
8	60	27	36	36	41	58	158	110	154	172	151	97	8
9	58	26	36	34	41	63	156	110	127	170	154	92	9
10	58	28	36	34	41	73	156	102	121	165	154	92	10
11	58	30	36	36 *	41	70	138	95	113	158	154	92	11
12	58	32	36	36	41	58	123	95	113	158	154	95	12
13	62	32	36	34	41	63	113	100	113	168	154	99	13
14	70	32	36	36	41	87	100	108	112	172	151	112	14
15	76	32	36	36	41	99	100	106	106	170	144	123	15
16	82	32	34	36	41	117	99	113	106	170	144	144	16
17	82	32	34	36	41	134	100	119	106	180	144	142	17
18	87	30	34	36	42	149	100	113	106	188	147	142	18
19	94	30	34	38	41	163	102	110	108	188	144	147	19
20	94	30	34	41	41	154	104	110	121	182	144	154	20
21	88	30	38	41	44	132	104	110	144	175	144	147	21
22	82	30	47	41	57	119	115	106	144	172	142	140	22
23	83	39	34	41	57	110	127	100	154	172	144	140	23
24	83	62	34	39	66	99	121	97	165	170	144	136	24
25	82	62	36	39	78	82	125	90	160	170	144	136	25
26	76	62	36	39	76	83	123	85	160	170	142	132	26
27	70	62	36	39	73	75	115	90	160	165	142	119	27
28	65	62	34	39	70	60	115 *	99	154	158	144	112 *	28
29	63 *	62	34	39	62 *	60	117	99	142 *	158	147	108	29
30	55	52 *	34	39		60	119	104	144	158	144	106	30
31	47		34	39 *		70 *		117 *		158 *	147 *		31
MEAN	72.3	37.3	35.7	37.1	48.0	84.5	120	105	140	169	150	125	MEAN
MAX.	94	62	47	41	78	163	160	119	188	188	175	154	MAX.
MIN.	47	24	34	34	39	54	83	85	106	154	142	92	MIN.
AC. FT.	4450	2220	2200	2280	2760	5190	7150	6480	8310	10410	9230	7440	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
93.8	208	2.72	6	6	0730	24	1.82	11	3		68110

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 59 04	119 43 24	SW 7 11S 21E	77,200	23.8	12-11-37	OCT 07-DATE		1938		294.00	USGS

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	C00200	JAMES BYPASS NEAR SAN JOAQUIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16						NO FLOW							16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FRDM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 39 06	120 10 45	SW 1 15S 16E	5600	12.22	6-7-69	MAY 27-DATE					

Station located 0.1 mile downstream from Placer Avenue, 3.1 miles north of City of San Joaquin. James Bypass carries diverted flow from Kings River to San Joaquin River. Flow regulated by upstream reservoir, weir, and diversions. Altitude of gage is 165 feet (from U. S. Geological Survey topographic map). This station was established in 1929 and maintained until 1947 by Kings River Water Association. The U. S. Geological Survey maintained it and published the data until 1953. The U. S. Bureau of Reclamation has maintained the station from that time and records for the period 1953 through 1972 are available from their office in Sacramento. Record since 1969 has been published in the Bulletin No. 130 series of reports.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B95925	DELTA-MENDOTA CANAL NEAR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2485	2342	2140	0	3047	3448	3702	3668	4261	2582	4475	4104	1
2	2500	2088	2076	0	2513	3770	4165	4102	4311	2593	4476	4018	2
3	2933	2085	1946	0	2598	4076	3684	4121	4309	3340	4485	4007	3
4	2967	2144	1986	0	2581	4088	3716	4128	4290	4315	4456	4004	4
5	2953	2146	1947	0	2662	4027	3691	4039	4304	4283	4409	4013	5
6	2941	2141	2081	0	3098	4049	3669	4011	4308	4289	4417	3993	6
7	2956	2143	2071	0	2921	4077	3603	4042	4293	4301	4410	3732	7
8	3022	2144	2044	0	2924	4073	3655	4046	4319	4297	4437	3631	8
9	3264	2148	2141	0	2998	4108	3653	4051	4235	4323	4421	3995	9
10	3270	2065	2164	70	3151	4127	3256	4075	4314	4308	4413	4004	10
11	3258	2215	2165	103	3257	4044	3076	4054	4259	4286	4418	3949	11
12	3269	2251	2162	104	3292	4035	2360	4103	4230	4307	4409	3958	12
13	3120	2204	2175	104	3168	4008	2373	4043	4191	4302	4397	3941	13
14	3130	2374	2273	213	3226	4017	2381	4048	4145	4281	4401	3941	14
15	3081	2398	2334	207	3445	4035	2372	4043	4154	4347	4402	4002	15
16	3031	2401	2321	210	3414	4041	2395	4050	4191	4472	4470	3935	16
17	2964	2431	2335	315	3424	4119	2443	4025	4196	4390	4431	3960	17
18	2846	2500	2345	378	3428	4123	3588	4074	4204	4399	4382	3925	18
19	2267	2501	2338	1441	3440	4112	3983	4127	4181	4416	4364	3942	19
20	2874	2499	2335	1568	3880	3632	4187	4128	4233	4393	4345	3903	30
21	2707	2493	2316	1554	3873	3775	4167	4130	3561	4395	4339	3876	21
22	2312	2450	2335	1703	3436	3640	4102	4123	2558	4390	4328	3918	22
23	2559	2436	1490	2485	3449	3664	4096	4058	1173	4393	4331	3912	23
24	2808	2449	965	2887	3469	3623	4187	4158	923	4398	4338	3966	24
25	2804	2471	2271	2677	3455	3702	4109	4092	926	4448	4328	3846	25
26	2800	2476	2272	2750	3442	4156	4070	4109	947	4486	4375	3921	26
27	2756	2484	1469	2793	3889	3636	4078	4114	968	4485	4389	3935	27
28	2716	2482	1550	2550	3435	3739	4142	4081	965	4488	4328	3909	28
29	2675	2470	1551	2656	3434	3704	3746	4093	963	4487	4284	3944	29
30	2714	2235	623	2652		3720	3160	4052	1682	4400	4363	3918	30
31	2613		0	2643		3635		4057		4449	4277		31
MEAN	2858	2322	1943	1034	3253	3903	3527	4066	3320	4227	4390	3937	MEA
MAX.	3270	2501	2345	2887	3889	4156	4187	4158	4319	4488	4485	4104	MAX
MIN.	2267	2065	0	0	2513	3448	2360	3668	923	2582	4277	3631	MIN
AC. FT.	175945	138183	119448	63597	187141	240009	209611	250010	197545	259924	269950	234255	AC.F

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
3231	4488		7	28		0					2345618

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 47 45	121 35 05	SW31 1S 4E				JUN 51-DATE		1951		0.00	USGS

Station located at Tracy Pumping Plant at intake to canal, 6 miles southeast of Byron, 10 miles northwest of Tracy. Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant where it is lifted about 200 feet into canal. Records furnished by U. S. Bureau of Reclamation.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B00770	DELTA-MENDOTA CANAL TO MENDOTA POOL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1351	639		0	987	1328	1309	1758	2358	2797	2672	1970	1
2	1403	458		0	1055	1803	1327	1844	2515	2797	2652	1853	2
3	1402	439		0	947	1834	1367	1829	2516	2816	2738	1853	3
4	1427	391		0	1006	1925	1285	1836	2516	2880	2852	1880	4
5	1442	393		0	1006	1972	1202	1760	2477	2944	2873	1565	5
6	1429	393		0	1006	1965	1221	1745	2521	2932	2873	1398	6
7	1419	393		0	1005	1925	1217	1745	2489	2883	2745	1387	7
8	1425	405		0	1059	1959	1177	1680	2574	2876	2610	1354	8
9	1425	401		0	1154	1976	1177	1714	2582	2876	2663	1422	9
10	1425	403		0	1234	1988	1133	1541	2582	2771	3060	1503	10
11	1392	350		0	1259	1988	1229	1707	2582	2592	2489	1470	11
12	1258	338	N	0	1217	1989	1254	1742	2551	2613	2929	1401	12
13	1250	338	O	0	1134	1998	1218	1930	2376	2672	2857	1420	13
14	1165	363		0	1137	1939	1194	1980	2295	2610	2856	1411	14
15	975	448		0	1175	1897	1219	2076	2329	2685	2868	1440	15
16	975	415	F	0	1250	1918	1292	2159	2535	2817	2825	1514	16
17	975	408	L	0	1277	1864	1420	2167	2573	2947	2823	1638	17
18	944	405	O	0	1370	1864	1605	2130	2612	3088	2801	1702	18
19	848	406	W	0	1371	1830	1644	2160	2641	3043	2725	1695	19
20	761	406		0	1371	1699	1576	2160	2646	2909	2696	1756	20
21	707	407		0	1371	1524	1656	2247	2566	2872	2606	1802	21
22	704	417		0	1371	1499	1689	1898	2932	2855	2334	1852	22
23	704	420		1210	1380	1257	1689	1910	2760	2855	2155	1865	23
24	704	422		825	1398	1334	1681	1915	2742	2880	2185	1978	24
25	747	422		462	1336	1375	1760	1928	2688	2831	2233	1805	25
26	623	424		680	1316	1419	1827	1947	2736	2777	2247	2027	26
27	706	424		863	1316	1298	1897	1959	2657	2857	2255	2133	27
28	730	424		470	1232	1215	1902	1959	2668	2905	2255	2157	28
29	750	425		588	1004	1273	1901	2035	2685	2943	2156	2157	29
30	750	287		588		1294	1902	2172	2699	2943	1997	1996	30
31	750			576		1309		2401		2856	1991		31
MEAN	1050	409		202	1198	1692	1466	1937	2580	2843	2581	1713	MEAN
MAX.	1442	639		1210	1398	1998	1902	2401	2932	3088	3060	2157	MAX.
MIN.	623	287		462	947	1215	1133	1541	2295	2592	1991	1354	MIN.
AC. FT.	64594	24325		12420	68914	104049	87213	119076	153527	174787	158719	101958	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1482	3088		7	18		0		12	1		1069960

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 47 11	120 23 05	NW19 13S 15E				JUL 51-DATE					

Station located approximately 2 miles north of Mendota, where Delta-Mendota Canal crosses the Outside Canal, which is 0.8 mile northwest of Bass Avenue crossing (check No. 21). Flow measured by three Sparling meters located at siphon outlet. Records furnished by U. S. Bureau of Reclamation.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B07710	SAN JOAQUIN RIVER NEAR MENDOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	322	89	63	32	36	276	230	284	433	493	517	398	1
2	264	65	52	29	33	304	227	270	438	481	507	385	2
3	220	61	45	26	36	337	231	292	445	466	502	372	3
4	194	60	42	22	37	354	236	316	457	469	502	376	4
5	158	57	37	19	38	363	234	318	462	475	507	374	5
6	156	56	34	18	40	385	221	320	464	476	512	348	6
7	154	54	29	16	46	409	204	322	462	486	522	332	7
8	152	53	27	15	65	414	197	324	462	500	514	328	8
9	149	52	25	13	77	418	180	334	459	495	507	328	9
10	146	51	23	12	89	420	174	343	457	498	505	328	10
11	149	53	22	11	94	422	198	348	459	498	507	328	11
12	152	59	20	10	96	425	208	352	466	490	502	328	12
13	152	61	20	8	101	429	206	352	466	502	502	328	13
14	152	60	19	6	134	433	204	352	459	502	500	328	14
15	149	60	18	5	167	431	203	361	452	512	498	328	15
16	150	61	63	3	182	425	203	372	454	519	498	330	16
17	155	60	120	2	197	422	210	376	459	510	490	334	17
18	152	60	122	1	198	368	228	376	464	500	481	337	18
19	150	60	120	0	203	306	228	383	464	505	452	334	19
20	146	60	142	0	204	238	244	392	464	500	452	334	20
21	143	60	160	0	208	197	262	392	466	507	454	334	21
22	140	60	148	0	209	196	280	396	476	507	459	332	22
23	137	60	107	10	209	196	292	398	488	505	459	332	23
24	137	60	72	27	203	194	292	398	488	505	454	330	24
25	134	65	57	37	203	192	288	394	483	495	440	330	25
26	131	67	51	43	204	194	286	398	478	490	422	339	26
27	128	67	48	44	208	203	288	403	471	490	418	361	27
28	130	67	44	45	216	218	286	398	476	490	418	365	28
29	131	67	41	44	258	218	290	403	481	495	418	383	29
30	120	66	38	43		218	290	416	483	495	405	286	30
31	106		35	43		224		418		512	405		31
MEAN	157	61	59	19	1376	317	237	361	465	496	475	342	MEA
MAX.	322	89	160	45	258	433	292	418	488	519	517	398	MA
MIN.	106	51	18	0	33	192	174	270	433	466	405	286	MI
AC. FT.	9640	3630	3660	1160	7920	19500	14120	22220	27640	30480	29210	20370	AC.

E — ESTIMATED
NR — NO RECORD
★ — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND ★

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
261	526	4.23	8	7	1700	0	1.33	1	22	1600	189550

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 48 37	120 22 35	SW 7 13S 15E	11740a	13.75	6-20-41			1939	1953	142.53	USBR
			8840		6- 1-52	OCT 39-DATE		1954		140.53	USBR

Station located 2.5 miles downstream from Mendota Dam, 4 miles north of Mendota. Records furnished by U. S. Bureau of Reclamation. Drainage area is 3,943 square miles. This station is equipped with DWR radio telemeter. Flow regulated by upstream reservoirs. Summer flows consist mainly of Delta-Mendota Canal water regulated through Mendota Dam for downstream diversions.

a Maximum discharge of record prior to the construction of Friant Dam in 1944.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B07610	SAN JOAQUIN RIVER NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0		0		0	12	0	8	12	0	0	0	1
2	0		0		0	4	0	4	12	0	0	0	2
2	0		0		0	0	0	0	12	0	0	0	3
4	0		0		0	0	0	0	12	0	0	0	4
5	0		0		0	0	4	0	12	0	0	0	5
6	0		0		0	9	0	0	7	9	0	0	6
7	0		0		0	3	0	0	0	12	0	9	7
8	0		0		0	0	0	0	0	12	9	4	8
9	0		0		0	8	0	9	0	7	12	0	9
10	0		0		8	12	0	7	0	0	12	0	10
11	0		0		12	3	0	0	0	9	9	9	11
12	6	N	0	N	8	0	0	3	9	12	0	0	12
12	12	O	0	O	0	0	0	9	3	3	0	0	13
14	7		0		0	0	0	8	0	0	9	6	14
15	0		0		0	0	0	0	0	5	12	7	15
16	0	F	0	F	0	5	0	8	0	12	12	5	16
17	0	L	0	L	5	7	0	4	0	12	8	4	17
18	0	O	0	O	2	0	8	0	0	12	0	0	18
19	0	W	0	W	0	0	3	0	9	12	0	0	19
20	0		0		0	0	0	0	4	12	0	0	20
21	0		0		9	0	0	0	9	7	0	0	21
22	0		1		7	9	0	0	12	0	0	0	22
23	0		2		0	7	0	0	12	0	9	0	23
24	0		0		0	0	8	0	7	0	12	0	24
25	0		0		0	0	3	0	0	0	8	5	25
26	0		0		0	0	0	9	0	9	0	4	26
27	0		0		0	0	0	8	8	12	0	0	27
28	0		0		0	9	0	0	12	12	0	0	28
29	0		0		9	3	0	9	8	3	0	0	29
30	0		0			0	0	12	0	0	0	0	30
31	0		0			0		12		9	0		31
MEAN	0.8		0.1		2.1	2.9	0.9	3.5	5.3	5.8	3.6	1.8	MEAN
MAX.	12		2		12	12	8	12	12	12	12	9	MAX.
MIN.	0		0		0	0	0	0	0	0	0	0	MIN.
AC. FT.	50		6		119	180	52	218	317	359	222	105	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
2.2						0		10	1	0015	1628

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO OH GAGE	REF. DATUM
36 59 38	120 30 02	N½12 11S 13E	8920a	10.52b	6-24-41				1944		
			8200		6- 5-52	OCT 40-DATE		1945		116.5	USED

Station located 800 feet downstream from the head of Temple Slough, 6.5 miles east of Dos Palos. Records furnished by U. S. Bureau of Reclamation. Drainage area is approximately 4,672 square miles. Flow regulated by upstream reservoirs. Water diverted above station to Central California Irrigation District.

a Maximum discharge of record prior to the construction of Friant Dam in 1944.
b Gage height at site and datum then in use.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B67325	LEWIS FORK FRESNO RIVER NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	5.4	9.2	16	34	26	53	49	61	35	14	3.6 *	0.9 *	1
2	4.5	9.3	18	35	25	54	50	61	34	13	4.2	0.6	2
3	3.9	9.0	14	33	28	64	52	61	31	6.6	4.8	0.4	3
4	3.3	8.7*	18	29	28 *	71	53	61 *	29	10	4.8	0.4	4
5	3.4 *	8.0	17	30	64	73	55	61	30 *	11 *	3.0	2.5	5
6	3.8	7.8	19	30	63	74	58	61	31	10	1.2	2.5	6
7	4.2	8.4	16	29 *	45	75 *	53 *	61	47	10	0.6	0.9	7
8	4.2	8.4	12	28	40	75	52	61	62	10	0.6	0.4	8
9	4.4	9.3	17	28	37	75	52	61	56	10	0.6	0.1	9
10	4.5	9.1	18	27	36	75	53	60	50	7.8	1.2	0.2	10
11	4.8	28	17	27	35	75	78	60	46	9.5	2.1	0.6	11
12	4.2	79	19	28	35	75	85	59	41	9.8	0.9	0.6	12
13	3.6	33	18 *	28	36	77	80	59	36	8.8	1.2	0.6	13
14	3.6	23	20	28	37	76	72	60	33	7.6	0.9	0.6	14
15	6.1	20	20	29	37	76	74	62	32	6.6	0.6	1.2	15
16	9.2	17	17	30	37	76	73	63	31	7.2	0.6	1.2	16
17	9.2	17	18	29	38	78	73	63	28	7.2	0.6	1.2	17
18	7.8	17	19	29	39	76	71	63	20	7.0	0.9	2.1	18
19	7.0	16	18	31	41	78	67	64	15	7.2	1.6	2.5	19
20	6.4	16	18	31	43	79	66	63	18	7.8	0.6	2.5	20
21	6.5	16	18	30	45	77	66	60	17	8.3	0.6	2.5	21
22	5.4	16	131	30	64	75	67	58	17	7.1	0.9	2.5	22
23	5.5	16	95	35	56	69	65	57	17	7.8	1.2	2.5	23
24	5.4	16	85	31	50	68	67	56	16	6.3	1.2	3.0	24
25	6.3	15	134	32	47	68	63	56	16	5.0	1.6	3.6	25
26	6.1	15	80	29	47	67	63	55	16	3.0	2.1	2.5	26
27	6.2	16	67	28	50	64	63	55	15	2.9	2.5	3.0	27
28	7.2	25	49	32	53	60	63	53	16	2.7	3.0	2.5	28
29	6.0	24	39	33	53	57	62	43	15	3.2	4.2	3.0	29
30	8.7	19	34	29		57	61	40	14	4.9	3.0	3.6	30
31	9.4		34	27		55		38		5.2	0.2		31
MEAN	5.8	17.7	36.0	30.0	42.6	70.1	63.5	57.9	28.8	7.7	1.8	1.7	MEAN
MAX.	9.4	79	134	35	64	79	65	64	62	14	4.8	3.6	MAX
MIN.	3.3	7.8	12	27	25	53	49	38	14	2.7	0.2	0.1	MIN.
AC. FT.	353	1054	2212	1843	2450	4312	3760	3562	1714	475	109	101	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
30.3	241	2.03	12	25	1730	0	0.80	9	9	1000	21960

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO OH GAGE	REF. DATUM
37 20 44	119 38 20	SE 2 7S 21E	2000	5.00	2-1-63	SEP 61-DATE		1961		0.00	LOCAL

Station located 1.6 miles north of Oakhurst on Highway 41, 500 feet downstream from White Oaks Guest Home. Station located on left bank above concrete weir. Drainage area is 32.5 square miles. Altitude of gage is approximately 2,300 feet, from topographic map. Flow recorded at this station includes water diverted from South Fork Merced River drainage via Big Creek Diversion.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B67300	MIAMI CREEK NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.3	1.5	2.8	4.5	4.8	8.1	3.8	4.1	2.0	0.9	0.3 *	0.3 *	1
2	1.3	1.5	2.7	4.5	4.4	7.9	3.9	3.9	2.0	0.8	0.3	0.2	2
3	1.2	1.5	3.0	4.4	4.2	9.0	3.7	3.7	2.0	0.8	0.3	0.2	3
4	1.1	1.5*	2.7	4.3	4.3*	9.7	3.6	3.6*	1.9	0.8	0.3	0.3	4
5	1.0*	1.4	2.6	4.0	15	9.5	3.8	3.4	1.8*	0.7*	0.2	1.1	5
6	1.0	1.4	2.7	3.9	17	9.2	5.0	3.4	1.8	0.7	0.2	1.1	6
7	0.9	1.4	2.6	3.9*	9.9	9.0*	4.0*	3.5	2.8	0.7	0.2	0.7	7
8	0.9	1.4	2.4	4.0	8.0	8.7	3.7	3.4	3.3	0.7	0.2	0.6	8
9	0.9	1.4	2.4	4.0	7.3	8.4	3.6	3.4	3.2	0.6	0.2	0.5	9
10	0.9	1.4	2.8	3.9	7.0	8.0	3.6	3.4	3.1	0.6	0.2	0.4	10
11	0.8	5.7	2.8	3.8	6.8	7.6	8.4	3.2	2.9	0.6	0.1	0.4E	11
12	0.8	12	2.4	3.6	6.5	7.5	10	3.2	2.4	0.6	0.1	0.4E	12
13	0.8	5.9	3.1	3.6	6.4	7.1	9.3	3.1	2.1	0.5	0.1	0.4E	13
14	0.7	3.9	2.8	3.7	6.6	7.0	7.3	2.9	1.9	0.5	0.2	0.3E	14
15	0.8	2.9	3.0	3.9	6.6	6.5	7.7	2.8	1.7	0.4	0.2	0.3E	15
16	1.2	2.6	2.8	4.0	6.5	6.1	8.5	2.7	1.6	0.5	0.3	0.3	16
17	1.3	2.5	2.6	4.1	6.5	5.8	8.1	2.7	1.6	0.4	0.3	0.3	17
18	1.4	2.4	2.6	4.1	6.8	5.6	7.4	2.8	1.5	0.4	0.3	0.3	18
19	1.5	2.3	2.9	4.3	7.1	5.3	6.0	2.9	1.4	0.5	0.3	0.4	19
20	1.4	2.3	2.7	4.4	7.1	5.2	5.9	3.2	1.3	0.5	0.3	0.5	20
21	1.4	2.2	2.9	4.5	7.2	5.0	6.0	3.3	1.3	0.7	0.3	0.4	21
22	1.4	2.2	25	4.4	11	4.8	6.0	3.1	1.2	0.6	0.2	0.3	22
23	1.3	2.2	17	6.1	9.9	4.8	5.8	2.9	1.3	0.5	0.2	0.3	23
24	1.4	2.3	14	5.4	9.0	4.6	5.6	2.8	1.3	0.5	0.2	0.3	24
25	1.5	2.3	28	4.9	8.2	4.6	5.4	2.6	1.3	0.4	0.2	0.3	25
26	1.5	2.4	14	4.9	7.9	4.5	5.1	2.5	1.3	0.4	0.2	0.4	26
27	1.5	2.6	8.7	4.0	8.1	4.4	4.6	2.4	1.2	0.4	0.2	0.4	27
28	1.5	3.9	6.6	5.2	8.2	4.3	4.6	2.4	1.1	0.3	0.3	0.4	28
29	1.5	4.0	5.4	4.7	8.1	4.3	4.3	2.3	1.0	0.3	0.4	0.4	29
30	1.5	3.3	4.9	4.8		4.1	4.2	2.2	1.0	0.5	0.4	0.4	30
31	1.5		4.7	4.9		3.9		2.0		0.5	0.3		31
MEAN	1.2	2.8	6.0	4.4	7.8	6.5	5.6	3.0	1.8	0.6	0.2	0.4	MEAN
MAX.	1.5	12	28	6.1	17	9.7	10	4.1	3.3	0.9	0.4	1.1	MAX.
MIN.	0.7	1.4	2.4	3.6	4.2	3.9	3.6	2.0	1.0	0.3	0.1	0.2	MIN.
AC. FT.	74	167	368	267	449	398	335	186	108	34	15	25	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
3.4	52	3.94	12	25	1645	0.1	2.34	8	11	1645	2426

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 23 38	119 39 10	SE22 6S 21E	804	9.08	2-1-63	DEC 59-DATE		1959		0.00	LOCAL

Station located 150 feet downstream from bridge, 4.5 miles north of Oakhurst. Tributary to Fresno River. Stage-discharge relationship at times affected by ice. Drainage area is 10.6 square miles. Recorder installed December 15, 1959. Altitude of gage is approximately 3,500 feet (from topographic map).

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B67285	MIAMI CREEK AT HIGHWAY 49 NEAR AHWAHNEE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	4.2	6.5	7.7	11	4.1	2.5	1.6				1
2		0	5.2	7.3	7.7	10	4.5	4.1	0.6				2
3		0	6.0	8.5	8.2	11	3.7	2.1	0.0				3
4		0	5.3	7.0	8.3*	12	1.9	3.5*	1.0				4
5		0	4.9	6.7	23	12	2.8	0.0	2.3*				5
6		0	4.6	6.1	37	11	5.7	2.8	0.0				6
7		0	5.6	5.4*	20	11 *	3.6*	4.1	1.5				7
8		0	3.8	5.1	15	9.6	1.5	4.8	8.4				8
9		0.9	4.2	4.7	13	9.2	1.8	4.7	8.7				9
10		2.6	5.6	4.5	11	8.5	1.4	4.3	11				10
11		6.7	5.6	4.7	10	7.9	8.3	2.6	10				11
12	N	20 *	6.3	5.4	10	7.4	21	3.7	9.9	N	N	N	12
13	O	5.9	6.7*	5.5	9.8	7.0	20	0.7	4.3	O	O	O	13
14		4.9	6.7	4.9	9.7	6.5	13	0.3	3.1				14
15		4.8	7.5	4.9	9.8	6.0	14	3.0*	4.7				15
16	F	6.3	6.3	5.2	9.4	6.3	12	2.2	2.4	F	F	F	16
17	L	5.6	7.5	5.4	9.1	3.0	11	1.7	0.6	L	L	L	17
18	O	4.9	7.9	5.5	9.6	4.1	10	1.4	0.0	O	O	O	18
19	W	4.8	7.9	5.6	9.7	4.2	8.4	1.5	0.1	W	W	W	19
20		4.4	7.9	5.8*	9.6	5.1	7.7*	1.8	1.2				20
21		4.1	8.3	6.0	9.8	4.7*	7.4	1.5	0.0				21
22		3.4	34 *	6.3	13	5.2	7.5	3.4	0.0				22
23		2.8	29	8.1	14	5.1	7.5	4.7	0.0				23
24		2.3*	17	10	13	4.7	7.4	4.6	0.0				24
25		2.1	37	8.4	12 *	4.3	7.0	5.0	0.6				25
26		2.8	23	9.3	11	3.7	6.9	3.9	2.7				26
27		3.4	12	9.0	11	3.8	5.7	3.6	0.5				27
28		5.4	6.5	9.1	11	3.8	1.6	5.7	1.0				28
29		6.6	6.4	8.9	11	4.1	1.7	5.6	0.0				29
30		5.5	7.2	8.1		4.5	0.6	4.0	0.0				30
31			6.3	7.6		4.4		0.8					31
MEAN		3.7	9.9	6.6	12.2	6.8	7.0	3.1	2.5				MEAN
MAX.		20	37	10	37	12	21	5.7	11				MAX.
MIN.		0	3.8	4.5	7.7	3.0	0.6	0.0	0.0				MIN.
AC. FT.		219	608	408	701	419	416	188	151				AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
4.3	65	3.96	12	25	2000	0		10	1	0015	3121

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 20 50	119 43 00	SW 6 7S 21E	913E	8.24	1-16-70	OCT 69-DATE		1969		0.00	LOCAL

Station located 4.0 miles west of Oakhurst on State Highway 49. Recorder installed on the downstream side of bridge. Tributary to Fresno River. Drainage area 31.6 square miles. Recorder installed 10-15-69. Altitude of gage is approximately 2030 feet (from topographic map).

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B06725	FRESNO RIVER EIGHT MILES WEST OF MADERA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	66	15								1
2			0.0	60	13								2
3			0.0	56	00.0								3
4			0.0	51	0.0								4
5			0.0	50	0.0								5
6			0.0	45	0.0								6
7			0.0	43	65								7
8			0.0	43	100								8
9			0.0	41	65								9
10			0.0	40	43								10
11			0.0	21	35								11
12	N	N	0.0	18	30	N	N	N	N	N	N	N	12
13	O	O	0.0	22	24	O	O	O	O	O	O	O	13
14			0.0	22	15								14
15			0.0	22	13								15
16	F	F	0.0	21	0.0	F	F	F	F	F	F	F	16
17	L	L	0.0	21	0.0	L	L	L	L	L	L	L	17
18	O	O	0.0	20	0.0	O	O	O	O	O	O	O	18
19	W	W	0.0	19	0.0	W	W	W	W	W	W	W	19
20			0.0	18	0.0								20
21			0.0	18	0.0								21
22			0.0	21	0.0								22
23			0.0	20	0.0								23
24			0.0	17	0.0								24
25			0.0	20	0.0								25
26			50	31	0.0								26
27			270	20	0.0								27
28			225	15	0.0								28
29			200	20	0.0								29
30			102	19									30
31			80	15									31
MEAN			30	29	14								MEAN
MAX.			270	66	100								MAX.
MIN.			0.0	15	0.0								MIN.
AC. FT.			1839	1815	829								AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
6.2	340	2.36	12	27	0845	0					4483

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R. M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 58 30	120 12 12	NE15 11S 16E				1936-SEP 40 OCT 41-SEP 42 JUL 44-DATE		1936		0.00	LOCAL

Station located left bank 100 feet downstream from County Road 19 bridge. Equipped with Stevens Type F recorder. Station records natural runoff as well as Central Valley Project water. Records furnished by Madera Irrigation District.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B64300	WEST FORK CHOWCHILLA RIVER NEAR MARIPOSA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	0.6	5.4	4.4*	3.6	1.8	1.3	*		*		1
2		0.0	1.0	4.8	3.9	3.6	1.9	1.2					2
3		0.0	1.6*	4.7	3.6	3.7	1.8	1.1					3
4		0.0	1.3	4.1*	3.8	3.9	1.8	1.0					4
5		0.0	0.8	3.9	62	3.5	2.1	1.0*					5
6	*	0.0	0.7	3.6	94	3.2	2.6*	1.0					6
7		0.0	0.7	3.5	31	3.1	2.2	1.1		*		*	7
8		0.0	0.6	3.2	19	3.0*	1.9	1.1					8
9		0.0	0.5	3.0	14	2.8	1.8	1.1					9
10		0.0	0.6	2.9	12	2.6	1.9	1.1					10
11		0.0	0.7	2.8	9.9	2.5	4.1	1.0					11
12	N	0.0*	1.0	2.8	8.3	2.6	9.3	1.0	N	N	N	N	12
13	O	0.0	1.6	2.8	8.4	2.7	16	0.8	O	O	O	O	13
14		0.0	1.0	2.7	7.8	2.5	5.6	0.7					14
15		0.0	0.8	2.5	6.9	2.3	3.6	0.6					15
16	F	0.0	0.6	2.5	6.4	2.2	2.9	0.6*	F	F	F	F	16
17	L	0.0	0.5	2.5	5.9	2.1	2.5	0.5	L	L	L	L	17
18	O	0.0	0.4	2.5	5.7	2.0	2.3	0.5	O	O	O	O	18
19	W	0.0	0.3	2.5	5.2	1.9	2.3	0.3	W	W	W	W	19
20		0.0	0.3	2.5	4.8	1.9	2.1	0.4					20
21	*	0.0	0.3	2.5	4.6	2.0	2.0	0.9					21
22		0.1	30 *	2.5	5.9	1.9	1.9	0.8					22
23		0.1	28	3.1	5.4	1.9	1.8	0.7					23
24		0.1	8.7	3.7	4.6	1.9	1.7	0.6					24
25		0.1	11	3.4	4.4	1.8	1.8	0.5					25
26		0.1	86	4.6	4.2	1.8	1.8	0.4					26
27		0.2	39	5.2	4.0	1.7*	1.6	0.3					27
28		0.3	39	5.9	3.7	1.7	1.4	0.2					28
29		0.7	15	5.9	3.7	1.8	1.3	0.2					29
30		0.8	9.9	5.1		1.8	1.3	0.1					30
31			6.8	4.6		1.7		0.1					31
MEAN		0.1	9.3	3.6	12.3	2.4	2.9	0.7					MEAN
MAX.		0.8	86	5.9	94	3.9	16	1.3					MAX.
MIN.		0.0	0.3	2.5	3.6	1.7	1.3	0.1					MIN.
AC. FT.		5	574	222	709	150	173	44					AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
2.6	322	5.13	12	22	1400	0.0		10	1	0000	1876

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 25 14	119 52 25	SE10 6S 19E	4350E	8.93	1-25-69	NOV 57-DATE		1957		0.00	LOCAL

Station located 15 feet downstream from Indian Peak Road Bridge, 6.7 miles southeast of Mariposa. Drainage area is 33.6 square miles. Altitude of gage is 1,680 feet (from topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B64200	CHOWCHILLA RIVER NEAR RAYMOND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

TRANSFERRED TO U S GEOLOGICAL SURVEY SEPTEMBER 30, 1971,
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PART 1, VOLUME 2

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 15 36	119 56 42	SE 1 8S 18E	13760	586.44	2-24-69	NOV 59-DATE		1959		0.00	USCGS

Station located 6.0 miles northwest of Raymond on Raymond Road. Elevation of station is approximately 600 feet. U. S. Coast and Geodetic Survey datum. This station was installed in cooperation with Madera County and Chowchilla Water District as a flood warning station and is equipped with a telemark. Records for some years are insufficient for publication. Drainage area is 201.7 square miles. Estimated days determined by comparison with Chowchilla River at Buchanan damsite. There are no upstream impairments. Operation of this station discontinued by Department of Water Resources on 9-30-71 and will be operated by the U. S. Geological Survey.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B00435	EASTSIDE BYPASS NEAR EL NIDO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	4.0E									1
2		*	0.0*	5.0E					*				2
3			0.0	6.4#	*			*					3
4	*		0.0	5.0E			*				*		4
5			0.0	4.0E								*	5
6			0.0	3.0E		*				*			6
7			0.0	2.0E									7
8			0.0	1.0E									8
9			0.0	0.0									9
10			0.0	0.0				*					10
11			0.0	0.0									11
12	N	N	0.0	0.0	N	N	N	N	N	N	N	N	12
13	O	O	0.0	0.0	O	O	O	O	O	O	O	O	13
14			0.0	0.0									14
15			0.0	0.0	*								15
16	F	F	0.0	0.0	F	F	F	F	F	F	F	F	16
17	L	L	0.0	0.0	L	L	L	L *	L	L	L	L	17
18	O	O	0.0	0.0	O	O	O	O	O	O	O	O	18
19	W	W	0.0	0.0*	W	W	W	W	W *	W	W	W	19
20	*		0.0	0.0						*			20
21			0.0	0.0		*	*						21
22		*	0.0	0.0									22
23			0.0	0.0									23
24			0.0	0.0									24
25			0.0	0.0									25
26			0.0	0.0									26
27			0.0	0.0									27
28			0.0	0.0									28
29			1.0E	0.0									29
30			2.0E	0.0									30
31			3.0E	0.0									31
MEAN			0.2	1.0									MEAN
MAX.			3.0	6.4									MAX.
MIN.			0.0	0.0									MIN.
AC. FT.			12	60									AC. FT.

E – ESTIMATED
NR – NO RECORD
* – DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
– E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
0.2	6.4E		1	3		0.0		10	1	0015	72E

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 08 52	120 36 17	SE13 9S 12E	21700	17.58	2-25-69	DEC 64-DATE		1964		90.00	USGS

Station located on left bank 2.8 miles downstream from San Joaquin River and 6.4 miles west of El Nido. This station is equipped with a radio telemeter. Flows regulated above station. Station records flows from San Joaquin, Fresno, Chowchilla Rivers and Kings River water via James Bypass.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B62400	MARIPOSA CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	2.0	11	7.3*	4.5	2.3	1.5	0.3		*		1
2		0.0	2.6	9.1	6.8	4.2	2.3	1.4	0.3				2
3		0.0	4.9*	8.0	6.3	4.1	2.2	1.3	0.2				3
4		0.0	4.4	7.1*	6.0	4.1	2.3	1.3	0.2				4
5		0.0	3.8	6.4	65	4.0	2.3	1.2*	0.2				5
6	*	0.0	3.7	6.1	224	3.7	2.6*	1.1	0.2				6
7		0.0	3.8	5.9	59	3.6	2.4	1.1	0.2	*		*	7
8		0.0	3.7	5.5	31	3.5*	2.3	1.1	0.2				8
9		0.0	3.7	5.5	22	3.4	2.1	1.0	0.2				9
10		0.0	4.2	5.3	17	3.3	2.1	1.0	0.2				10
11		0.0	5.0	5.1	14	3.2	3.8	0.9	0.1				11
12	N	0.0*	5.6	5.1	12	3.1	8.9	0.8	0.1	N	N	N	12
13	O	0.0	8.1	5.0	10	3.1	13	0.7	0.1	O	O	O	13
14		0.0	7.3	4.9	9.5	3.1	6.1	0.6	0.1				14
15		0.0	6.4	4.7	8.8	3.0	4.1	0.6	0.0				15
16	F	0.0	5.7	4.7	7.9	2.8	3.3	0.5*	0.0	F	F	F	16
17	L	0.0	5.4	4.7	7.3	2.7	3.0	0.5	0.0	L	L	L	17
18	O	0.0	5.3	4.6	6.9	2.6	2.6	0.5	0.0	O	O	O	18
19	W	0.0	5.2	4.7	6.4	2.6	2.4	0.5	0.0	W	W	W	19
20		0.0	5.2	4.6	6.1	2.4	2.3	0.5	0.0				20
21	*	0.0	5.4	4.5	5.8	2.4	2.2	0.5	0.0				21
22		0.0	76 *	4.5	5.9	2.4	2.1	0.6	0.0				22
23		0.0	66	4.8	5.7	2.4	2.0	0.6	0.0				23
24		0.0	17	5.1	5.3	2.3	1.9	0.6	0.0				24
25		0.0	33	5.0	5.1	2.2	1.9	0.5	0.0				25
26		0.0	81	5.9	4.8	2.1	1.9	0.5	0.0				26
27		0.0	101	7.4	4.7	2.0*	2.0	0.5	0.0				27
28		0.0	102	9.7	4.6	2.0	1.7	0.5	0.0				28
29		0.0	32	9.7	4.5	2.1	1.6	0.4	0.0				29
30		0.8	18	8.6		2.2	1.5	0.3	0.0				30
31			13	7.8		2.2		0.3					31
MEAN		0.0	20.7	6.2	20.0	3.0	3.0	0.8	0.1				MEAN
MAX.		0.8	102	11	224	4.5	13	1.5	0.3				MAX.
MIN.		0.0	2.0	4.5	4.5	2.0	1.5	0.3	0.0				MIN.
AC. FT.		2	1270	379	1150	181	181	46	5				AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
4.4	491	6.03	12	22	2115	0.0		10	1	0015	3214

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 23 55	120 00 10	NE21 6S 18E	7460E	11.63	2-24-69	NOV 57-DATE		1957		0.00	LOCAL

Station located at county road bridge, 5.6 miles east of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 65.7 square miles. Maximum discharge of record from rating curve extended above 4,705 cfs. Altitude of gage is 1,230 feet (from topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B62100	MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	20	13	8.8	3.7	2.4					1
2			0	17	12	8.4	3.7	2.3					2
3			0	15	11	8.4	3.6	2.2					3
4			0	13	11	8.4	3.6	2.1					4
5			0	13	12	8.0	3.5	2.1					5
6			0	11	104	7.8	3.4	2.0					6
7			0	11	221	7.8	3.4	2.0					7
8			0	10	82	7.6	3.3	2.0					8
9			0	9.2	46	7.4	3.3	1.9					9
10			0	8.8	35	7.2	3.3	1.8					10
11			0	8.8	27	6.8	3.5	1.6					11
12	N	N	0	8.4	23	6.6	3.6	1.5	N	N	N	N	12
13	O	O	0	8.0	20	6.6	5.4	1.3	O	O	O	O	13
14			0	8.0	18	6.4	16	1.2					14
15			0	7.8	17	6.4	14	1.0					15
16	F	F	0	7.8	16	6.2	8.4	0.8	F	F	F	F	16
17	L	L	0	7.8	15	6.0	6.8	0.5	L	L	L	L	17
18	O	O	0	7.8	14	6.0	6.2	0.3	O	O	O	O	18
19	W	W	0	7.4	13	5.8	5.4	0	W	W	W	W	19
20			0	7.4	12	5.8	4.8	0					20
21			0	7.2	12	5.4	4.0	0					21
22			0	7.2	12	5.2	3.9	0					22
23			0	7.2	12	5.0	3.7	0					23
24			2.4	7.2	11	4.8	3.5	0					24
25			11	7.4	11	4.6	3.4	0					25
26			37	7.8	10	4.2	3.1	0					26
27			74	8.4	9.6	4.0	3.0	0					27
28			140	9.6	9.2	4.0	2.9	0					28
29			92	13	8.8	4.0	3.8	0					29
30			42	14		3.9	3.6	0					30
31			27	14		3.8		0					31
MEAN			13.7	10.0	28.2	6.2	4.8	0.9					MEAN
MAX.			140	20	221	8.8	16	2.4					MAX.
MIN.			0	7.2	8.8	3.8	2.9	0					MIN.
AC. FT.			844	615	1620	379	285	58					AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
5.3	263		2	6		0		10	1		3800

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 16 52	120 09 45	NE 36 7S 16E	6020		12-24-55	NOV 52-DATE		1952		337.63	USCGS

Station located 1.5 miles downstream from Mariposa Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Mariposa Reservoir since 1948. Records furnished by U. S. Corps of Engineers. Drainage area is 110 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B06170	OWENS CREEK BELOW OWENS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	1.0	1.0	1.0	1.0						1
2			0	1.0	1.0	1.0	1.0						2
3			0	1.0	0.5	1.0	0.5						3
4			0	0.5	0.5	1.0	0.5						4
5			0	0.5	1.0	1.0	0.5						5
6			0	0.5	10	1.0	0.5						6
7			0	0.5	4.5	1.0	0.5						7
8			0	0.5	3.0	1.0	0.4						8
9			0	0.5	2.0	1.0	0						9
10			0	0.5	2.0	1.0	0						10
11			0	0.5	2.0	2.0	0.5						11
12	N	N	0	0.5	1.0	2.0	1.0	N	N	N	N	N	12
13	O	O	0	0.5	1.0	2.0	2.0	O	O	O	O	O	13
14			0	0.5	1.0	2.0	2.0						14
15			0	0.5	1.0	1.0	1.0						15
16	F	F	0	0.5	1.0	1.0	1.0	F	F	F	F	F	16
17	L	L	0	0.5	1.0	1.0	0.5	L	L	L	L	L	17
18	O	O	0	0.5	1.0	1.0	0.5	O	O	O	O	O	18
19	W	W	0	0.5	1.0	1.0	0.5	W	W	W	W	W	19
20			0	0.5	1.0	1.0	0.5						20
21			0	0.5	1.0	1.0	0.3						21
22			0.5	0.5	1.0	1.0	0						22
23			0	0.5	1.0	1.0	0						23
24			0	1.0	1.0	1.0	0						24
25			0	1.0	1.0	1.0	0						25
26			0.5	1.0	1.0	0.5	0						26
27			2.0	1.0	1.0	0.5	0						27
28			3.0	1.0	1.0	0.5	0						28
29			3.0	1.0	1.0	1.0	0						29
30			2.0	1.0		1.0	0						30
31			1.0	1.0		0.5							31
MEAN			0.4	0.7	1.6	1.1	0.5						MEAN
MAX.			3.0	1.0	10	2.0	2.0						MAX.
MIN.			0	0.5	0.5	0.5	0						MIN.
AC. FT.			24	42	90	65	29						AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
0.3	26		2	6		0		10	1		250

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 18 28	120 11 35	SW 23 7S 16E	590		12-24-55	FEB 50-DATE		1950		338.22	USCGS

Station located 0.25 mile downstream from Owens Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Owens Reservoir since 1949. Records furnished by U. S. Corps of Engineers. Drainage area is 25.6 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B05570	BEAR CREEK BELOW BEAR RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	13	12	2.3	0.8	0.6					1
2			0	10	8.6	2.0	0.8	0.4					2
3			0	8.2	7.0	2.3	0.9	0.2					3
4			0	7.0	6.6	2.3	0.8	0.1					4
5			0	6.2	7.0	2.3	0.8	0.1					5
6			0	5.0	170	2.0	1.0	0.1					6
7			0	4.4	87	2.0	0.8	0					7
8			0	4.1	45	2.0	0.8	0					8
9			0	3.8	27	1.9	0.8	0					9
10			0	4.1	19	1.9	0.9	0					10
11			0	3.5	14	1.9	1.5	0					11
12	N	N	0	3.5	11	1.8	1.7	0	N	N	N	N	12
13	O	O	0	3.2	9.0	1.8	1.8	0	O	O	O	O	12
14			0	2.9	7.4	1.7	3.5	0					14
15			0	2.9	7.0	1.6	3.8	0					15
16	F	F	0	2.9	6.2	1.6	4.4	0	F	F	F	F	16
17	L	L	0	2.6	5.4	1.5	3.8	0	L	L	L	L	17
18	O	O	0	2.6	5.0	1.3	3.2	0	O	O	O	O	18
19	W	W	0	2.6	4.4	1.3	2.3	0	W	W	W	W	19
20			0	2.3	4.1	1.3	1.8	0					20
21			0	2.3	3.8	1.2	1.6	0					21
22			0	2.0	3.5	1.1	1.5	0					22
23			0	2.0	3.5	1.1	1.4	0					23
24			13	2.0	3.5	1.1	1.3	0					24
25			13	2.3	3.2	1.1	1.3	0					25
26			155	2.6	2.9	1.0	1.1	0					26
27			100	2.9	2.6	1.0	1.0	0					27
28			191	3.5	2.6	0.9	0.8	0					28
29			70	17	2.3	0.9	0.9	0					29
30			33	23		0.9	0.8	0					30
31			19	16		0.9		0					31
MEAN			19.2	5.5	16.9	1.5	1.6	0.1					MEAN
MAX.			191	23	170	2.3	4.4	0.6					MAX.
MIN.			0	2.0	2.3	0.9	0.8	0					MIN.
AC. FT.			1180	338	973	95	95	3					AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
3.7	355		2	6		0		10	1		2680

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 21 27	120 14 05	NE 5 7S 16E	4460		12-24-55	JAN 55-DATE		1955		320.50	USCGS

Station located approximately 0.75 mile downstream from Bear Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 72.1 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B05525	BEAR CREEK AT MCKEE ROAD NEAR MERCED

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	57	18	5.4	30	16	0.8	45	72	70	74	75	58	1
2	60	14	6.2	22	12	1.2	42	71	75	63	73	62	2
3	62	12	8.0	17	10	0	63	71	72	69	70	60	3
4	67	10	7.4	13	8.0	0	56	67	72	73	64	70	4
5	54	12	6.2	11	8.0	0	48	72	65	65	74	83	5
6	50	43	5.8	9.2	198	4.6	50	98	67	63	76	102	6
7	72	68	5.8	8.0	190	78	43	86	58	57	72	95	7
8	88	80	5.2	7.6	70	59	34	92	68	60	78	98	8
9	67	88	4.4	7.0	45	37	47	84	78	65	71	114	9
10	63	70	4.8	6.4	34	38	52	88	74	83	76	108	10
11	60	55	5.0	6.0	21	30	61	78	77	78	86	116	11
12	56	45	5.2	5.6	13	35	74	76	82	62	102	107	12
13	54	38	5.6	5.2	9.2	39	41	80	78	58	100	88	13
14	52	31	5.2	5.0	7.0	35	45	75	84	57	84	110	14
15	50	25	5.0	4.6	6.0	44	37	79	80	52	90	118	15
16	48	20	4.8	4.4	5.4	50	62	61	68	45	88	120	16
17	45	17	5.0	4.0	4.6	52	83	70	68	53	88	126	17
18	43	12	4.8	4.0	4.0	60	74	88	76	65	104	100	18
19	40	11	4.6	3.6	3.6	56	67	92	78	65	90	86	19
20	38	8.8	4.4	3.4	3.0	64	65	95	78	78	72	84	30
21	36	8.0	4.6	3.2	2.6	68	71	101	83	75	78	90	21
22	34	7.8	5.6	3.2	2.0	55	84	95	73	84	88	94	22
23	33	7.2	6.0	3.2	0.8	49	94	86	60	90	84	78	23
24	29	7.0	6.0	3.0	0.8	54	75	80	63	96	75	72	24
25	26	7.0	6.0	3.0	0.4	54	53	89	70	82	59	70	25
26	24	5.6	23	3.4	1.0	55	61	82	74	79	67	80	26
27	45	5.0	95	3.4	1.0	60	62	70	76	90	65	107	27
28	62	5.4	300	3.6	0.8	61	84	72	65	98	58	108	28
29	43	5.4	176	4.8	0.8	60	56	80	70	101	63	95	29
30	32	5.6	65	23		70	67	80	55	94	60	74	30
31	23		40	23		64		77		77	65		31
MEAN	48.8	24.7	27.0	8.2	19.9	43.0	59.9	80.9	71.9	72.6	77.2	92.4	MEAN
MAX.	88	88	300	30	190	78	94	101	84	101	104	126	MAX.
MIN.	23	5.0	4.4	3.0	0.4	0	34	61	55	45	58	58	MIN.
AC. FT.	3000	1470	1660	503	1150	2650	3560	4970	4280	4460	4750	5500	AC. FT.

E — ESTIMATED
NR — NO RECORD
★ — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND ★

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
52.4	500		12	28		0		3	3		38000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD CFS	OF RECORD GAGE HT.	OF RECORD DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 18 34	120 26 38	SW21 7S 14E	5,400	16.90	3-16-58	NOV 56- DATE		1956		75.00	ASSUMED

Station located 50 feet downstream from McKee Road Bridge, one mile east of Merced. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs. Records furnished by the U. S. Corps of Engineers. Altitude of gage is 189 feet (from topographic map). Drainage area is 190 square miles. In December 1955, prior to installation of this station, a gage height of 22.9 feet was taken from a high water mark and the discharge was estimated as 9,500 cfs. Station installed in 1956; however, prior to 1969 records were not requested for publication by Department of Water Resources. Prior records available at U. S. Corps of Engineers office, Sacramento.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B05518	BEAR CREEK AT MERCED IRRIGATION DISTRICT WEST BOUNDARY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	102	21	10	69	29	13	96	111	38	54	86	41	
2	85	15	10	48	26	11	99	68	49	67	67	47	
3	93	22	12	33	23	10	103	48	40	39	40	47	
4	79	21	13	20	21	10	94	39	46	49	49	62	
5	85	21	12	17	23	10	76	39	40	100	45	93	
6	54	42	10	15	48	10	65	53	50	62	50	152	
7	37	91	10	14	355	10	77	54	67	67	62	137	
8	122	122	10	16	138	14	55	122	72	48	58	217	
9	218	142	10	16	74	28	54	59	86	45	48	174	
10	134	107	10	15	50	24	67	37	99	75	65	224	
11	87	69	10	15	37	25	46	28	53	75	48	311	
12	74	53	10	14	28	34	248	27	76	49	47	301	
13	70	42	10	17	23	91	124	21	42	69	63	336	
14	64	32	10	20	22	75	70	21	42	50	74	298	
15	58	24	10	15	20	74	38	33	45	47	77	270	
16	60	21	10	12	18	58	28	23	45	73	55	350	
17	54	17	10	12	18	57	27	25	44	55	49	355	
18	47	17	10	12	16	83	43	33	36	63	42	336	
19	44	15	9	12	16	64	38	36	64	89	52	290	
20	39	14	9	12	15	134	21	42	52	90	74	234	
21	36	13	9	12	15	99	29	50	71	53	75	159	
22	33	13	10	11	15	73	42	34	48	129	54	141	
23	31	16	18	11	15	65	64	42	39	88	48	151	
24	28	13	12	18	16	90	57	41	57	108	74	122	
25	25	13	10	17	13	107	55	34	90	65	69	52	
26	24	12	9	15	13	104	51	45	137	58	61	63	
27	23	11	127	16	13	113	49	39	112	55	54	52	
28	72	10	157	24	13	132	79	39	53	77	48	94	
29	51	10	139	22	13	103	54	52	49	55	54	111	
30	34	9	112	20		120	63	55	64	53	54	118	
31	25		90	35		103		48		103	42		
MEAN	64	34	29	20	39	63	67	45	62	68	58	178	ME
MAX.	218	142	157	69	355	134	248	122	137	129	86	355	MA
MIN.	23	9	9	11	13	10	21	21	36	39	40	41	MI
AC. FT.	3943	2039	1781	1200	2233	3856	3991	2773	3582	4185	3539	10588	AC

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
60.4	501	4.66	2	7	0600						43710

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 15 21	120 39 08	NE 9 8S 12E				1930-					

Station located 400 feet downstream from Crane Road Bridge, 6.6 miles southwest of Atwater.

Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs.

Records furnished by Merced Irrigation District. Altitude of gage is 108 feet (from U. S. Geological Survey topographic map). Monthly runoff record dating back to 1947 are published in Bulletin 130-69.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B56100	BURNS CREEK BELOW BURNS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	1.0	3.2	0.2	0						1
2			0	0.6	2.0	0.2	0						2
3			0	0.2	1.5	0.2	0						3
4			0	0	1.2	0.2	0						4
5			0	0	4.6	0.2	0						5
6			0	0	94	0.2	0						6
7			0	0	26	0.2	0						7
8			0	0	12	0.1	0						8
9			0	0	7.5	0.1	0						9
10			0	0	5.5	0.1	0						10
11			0	0	4.0	0.2	0						11
12	N	N	0	0	3.0	0.1	1.0	N	N	N	N	N	12
13	O	O	0	0	2.4	0	8.5	O	O	O	O	O	13
14			0	0	2.0	0	3.8						14
15			0	0	1.6	0	2.0						15
16	F	F	0	0	1.2	0	1.2	F	F	F	F	F	16
17	L	L	0	0	1.0	0	0.8	L	L	L	L	L	17
18	O	O	0	0	1.0	0	0.5	O	O	O	O	O	18
19	W	W	0	0	0.8	0	0.4	W	W	W	W	W	19
20			0	0	0.8	0	0.2						20
21			0	0	0.6	0	0.1						21
22			0	0	0.6	0	0						22
23			0	0	0.6	0	0						23
24			0	0	0.5	0	0						24
25			0	0	0.4	0	0						25
26			0	0	0.4	0	0						26
27			25	0	0.4	0	0						27
28			120	5.3	0.4	0	0						28
29			20	18	0.3	0	0						29
30			5.8	7.5		0	0						30
31			2.4	4.3		0							31
MEAN			5.6	1.2	6.2	0.1	0.6						MEAN
MAX.			120	18	94	0.2	8.5						MAX.
MIN.			0	0	0.3	0	0						MIN.
AC. FT.			343	73	356	4	37						AC. FT.

E — ESTIMATED
NR — NO RECORD
— DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
1.1	225		12	28		0		10	1		813

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 22 27	120 16 35	NE 36 6S 15E	2590		12-24-55	APR 50-DATE		1950		260.60	USCGS

Station located 0.5 mile downstream from Burns Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Burns Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 73.8 square miles.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	37	33 *	16	93	63	13 *	9.6	24	18	2.7	12 *	22
2	25	33	17	79	65	15	9.7	25	19 *	3.7	14	21
3	21	22	18	65	62	12	10	23	19	4.7	13	22
4	28	21	19	52	66	10	33	24 *	20	5.0	11	22
5	40	21	27	42 *	69	11	37	23	16	6.1	13	24
6	41 *	18	24	36	73	13	28 *	21	13	10	14	24
7	30	27	17	34	113 *	13	27	24	13	9.0	14	24
8	25	57	26	32	185	15	24	24	14	8.3	15	24 *
9	19	66	18 *	35	156	24	22	31	14	5.5	17	23
10	20	85	15	36	143	29	22	28	11	4.7	18	34
11	9.8	81	13	35	126	27	22	23	8.6	4.3	20	131
12	24	78	12	29	109	25	22	23	8.3	3.9	19	115
13	27	75	14	29	102	25	23	21	8.3	6.4	14	139
14	24	67	16	31	90	23	25	17	10	8.3*	9.8	158
15	22	58	12	33	80	24	26	14	12	8.6	7.3	143
16	22	46	11	36	72	23	24	14	11	6.1	5.2	158
17	16	42	9.5	44	66	24	24	15	8.6	4.7	5.0	178
18	16	40	6.7	57	53	23	23	20	9.0	4.1	13	190
19	16	33	7.5	75	47	20	23	21	9.8	3.4	18	228
20	13	34	6.9	74	43	15	24	20	9.4	3.9	16	192
21	13	23	5.2	70	34	13	26	16	9.0	3.2	14	127
22	19	27	6.0	67	25	12	25	14	7.0	2.8	15	72
23	35	27	11	65	19	8.2	25	16	7.0	3.4	16	37
24	35	26	24	67	17	8.5	24	14	6.7	7.3	18	33
25	46	25	30	64	18	15	24	16	5.5	13	25	32
26	40	21	28	63	16	11	25	15	5.0	16	35	28
27	24	16	25	60	13	11	26	19	5.5	16	41	24
28	15	16	85	60	12	14	26	26	5.5	11	34	23
29	49	15	189	76	10	14	24	23	3.9	8.3	34	22
30	46	16	190	63		9.6	23	15	3.0	5.8	33	39
31	30		124	54		11		16		7.6	24	
MEAN	26.7	38.3	33.0	53.4	67.1	16.5	23.5	20.2	10.0	6.7	18.0	77.0
MAX.	49	85	190	93	185	29	37	31	20	16	41	228
MIN.	9.8	15	5.2	29	10	8.2	9.6	14	3.0	2.7	5.0	21
AC. FT.	1642	2279	2029	3285	3862	1014	1401	1240	615	412	1105	4580

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
32.3	236	64.36	12	29	2030	2.1	61.47	12	22	0715	23460

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 17 42	120 50 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flows regulated by upstream reservoirs and diversions. Drainage area is 7,388 square miles.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B00975	PANOCHE DRAIN NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	28	24	30	18	36	71	50	63	78	78	82	53	1
2	23	24 *	31 *	20	43	70	58	68	80 *	78	83	57	2
3	26	30	36	21 *	44 *	71	51	68	80	78	83	49	3
4	24 *	28	38	14 E	46	76	51 *	65	81	75	81 *	52	4
5	29	25	34	14 E	52	75	52	60	83	73	80	57	5
6	32	23	36	21	45	75 *	53	63	82	73 *	79	56	6
7	32	21	37	22	48	74	44	65	81	74	78	55 *	7
8	32	22	37	22	52	75	40	66	82	71	78	57	8
9	29	21	38	20	50	72	43	62	83	74	72	56	9
10	34	21	40	14 E	46	73	38	58	82	75	64	49	10
11	30	21	30	16 E	48	70	42	57	82	75	69	41	11
12	30	23	24	22	46	74	44	63	79	73	65	51	12
13	33	26	25	22	51	76	54	65	79	72	70	52	13
14	28	28	25	21	57	75	52	66	74	73	72	52	14
15	28	29	24	22	62 *	74	44	64	69	75	71	52	15
16	25	27	22	22	60	72	38	65	66	77	70	46	16
17	28	26	22	28	57	71	34	62 *	69	77	70	44	17
18	23	26	24	26	60	73	33	62	73	79	72	41	18
19	22	21	22	27	62	68	36	70	74	80	74	37	19
20	26	27	18	24	59	67	38	72	73	79	76	36	20
21	24	27	20	27	61	68	44	73	76	79	76	39	21
22	25	28	22	33	64	63	49	75	75	78	74	40	22
23	24	29	20	31	66	59	50	77	76	79	75	36	23
24	24	26	23	30	67	57	52	78	74	80	76	32	24
25	24	27	22	33	69	54	48	79	77	80	73	33	25
26	19	25	19	35	70	54	52	74	78	80	64	30	26
27	22	26	21	33	73	55	55	71	78	80	68	32	27
28	20	30	19	31	70	45	54	69	77	80	66	31	28
29	22	32	17	32	73	37	58	78	76	79	61	26	29
30	24	29	19	32		38	61	76	76	78	54	24	30
31	24		21	36		44		78		80	55		31
MEAN	26.3	25.7	26.3	24.8	56.4	65.4	47.3	68.1	77.1	76.8	72.0	43.9	MEAN
MAX.	34	32	40	36	73	76	61	79	83	80	83	57	MAX.
MIN.	19	21	17	14 E	36	37	33	57	66	71	54	24	MIN.
AC. FT.	1615	1531	1619	1525	3247	4019	2813	4189	4588	4725	4425	2610	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
51.0	84	8.62	6	9	1900	14E	1.81	1	4		36900

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 55 25	120 41 19	NW 5 12S 12E	69. 84.a	9.19 9.04	11-24-65 5-31-69	FEB 59-SEP 62 OCT 64-SEP 68 APR 69-DATE	OCT 62-JUL 63	1959		-2.00	LOCAL

Station located midway between Outside and Main Canals 0.5 mile south of Main Canal levee road, 5.6 miles southwest of Dos Palos. This is drainage returned to San Joaquin River. Station is operated under a cooperative agreement between the Department of Water Resources and the Panoche Drainage District. Altitude of gage is approximately 140 feet (from U. S. Geological Survey topographic map).

a In April 1969, the gage height-discharge relationship was changed by removing the control boards from the entrance to the culvert increasing its capacity.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B00470	SALT SLOUGH NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	42	19 #	39 E	63	95	68 *	101	77	62	42	64 *	65	1
2	56	17	35 E	65	101	76	116	76	51 *	41	74	67	2
3	74	16	32 E	62	110	81	144	51	50	56	71	59	3
4	79	18	33 E	70	117 *	86	152	42 *	66	54	52	62	4
5	72	14	31 E	64 *	130	93	134	40	65	60	67	73	5
6	67 *	19	38 E	64	133	95	143 *	39	73	72	74	75	6
7	52	25	43 E	69	132	99	144	48	80	62	84	81	7
8	38	22	30 E	71	132	103	124	66	92	77	76	67 *	8
9	41	20	34 #	66	125	103	111	71	105	85	75	75	9
10	39	19	35 E	58	102	122	103	61	96	99	100	66	10
11	37	21	34 E	67	99	109	93	41	90	84	88	67	11
12	39	27	32 E	52	93	113	99	41	88	78	87	59	12
13	35	31	26 E	51	86	120	113	49	93	74	75	55	13
14	39	39	23	50	99	131	126	64	93	64 *	82	61	14
15	37	37	23	58	91	138	138	74	79	53	98	57	15
16	37	43	24	66	95	151	122	72	74	57	79	62	16
17	34	42	31	71	117	161	122	63	66	55	103	77	17
18	32	36 *	33	90	132	176	87	64	74	50	92	73	18
19	28	41 E	33	118	143	181	68	65	75	68	98	52	19
20	27	36 E	25	120	154	201	69	66	80	87	96	61	20
21	26	43 E	25	115	155	211	54	74	57	74	91	77	21
22	26	35 E	33	124	161	202	42	86	54	65	98	74	22
23	26	33 E	32	128	150	177	39	90	55	69	98	57	23
24	25	32 E	31	119	129	164	50	86	86	73	110	59	24
25	26	31 E	47	105	101	162	57	95	71	87	118	74	25
26	27	33 E	72	111	86	134	63	82	84	78	111	77	26
27	22	36 E	82	108	87	131	74	75	100	65	86	62	27
28	18	39 E	86	102	84	131	65	68	100	73	80	53	28
29	11 E	43 E	85	98	71	130	49	62	63	78	63	42	29
30	20 E	42 E	85	96		124	54	56	50	77	72	43	30
31	28 E		66	95		111		54		75	80		31
MEAN	37.4	30.3	41.2	83.7	114	132	95.2	64.5	75.7	68.8	85.2	64.4	ME
MAX.	79	43	86	128	161	211	152	95	105	99	118	81	MA
MIN.	11 E	14	23	50	71	68	39	39	50	41	52	42	MI
AC. FT.	2301	1803E	2535E	5149	6565	8100	5665	3963	4506	4229	5240	3832	AC.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
74	214	66.29	3	21	0200	11	63.25	11	5	1730	53890

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 14 52	120 51 04	SE10 8S 10E	419	70.35	6-10-69	MAR 68-DATE		1968		0.00	USCGS

Station located at Lander Avenue bridge, 5.5 miles south of Stevinson. This includes drainage being returned to San Joaquin River. Drainage area is 227 square miles.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	852580	BEAN CREEK NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.3	0.2	0.2	2.3	2.7*	2.9*	1.3	1.0*	0.3*	0.1	0.0	0.1*	1
2	0.3	0.2	0.2	2.3	2.5	2.8	1.4	1.0	0.3	0.1	0.0*	0.1	2
3	0.3	0.2*	0.2	2.2	2.4	2.8	1.4*	0.9	0.3	0.0	0.0	0.1	3
4	0.3*	0.2	0.2	2.0*	2.7	2.7	1.4	0.8	0.3	0.0	0.0	0.1	4
5	0.3	0.2	0.3	2.0	40	2.7	1.7	0.9	0.3	0.0	0.0	0.2	5
6	0.2	0.2	0.4	1.8	50	2.5	2.0	0.9	0.3	0.0	0.0	0.2	6
7	0.2	0.2	0.3	1.7	14	2.4	1.6	0.8	0.3	0.1	0.0	0.1	7
8	0.2	0.2	0.2*	1.5	9.9	2.3	1.5	0.7	0.3	0.1	0.0	0.1	8
9	1.5	0.2	0.3	1.5	7.9	2.2	1.4	0.7	0.3	0.1	0.0	0.1	9
10	1.8	0.2	0.3	1.5	6.4	2.1	1.4	0.7	0.3	0.1	0.0	0.0	10
11	1.8	0.9	0.3	1.5	5.8	2.0	2.5	0.7	0.3	0.1	0.0	0.1	11
12	1.6	0.9	0.4	1.5	5.2	2.0	3.7	0.6	0.3	0.1	0.0	0.1	12
13	1.1	0.3	0.4	1.6	5.0	2.0	5.6	0.6	0.3	0.1*	0.0	0.1	13
14	1.3*	0.2	0.4	2.0	4.6	1.9	2.8	0.6	0.2	0.1	0.1	0.0	14
15	1.0	0.1	0.5	2.0	4.3	1.6	2.2	0.5	0.3	0.1	0.1	0.0	15
16	0.7	0.1	0.5	2.0	4.1	1.6	2.1	0.5	0.3	0.1	0.1	0.0	16
17	0.5	0.1	0.5	2.0	3.8	1.6	2.0	0.6	0.3	0.1	0.1	0.0	17
18	0.2	0.1	0.5	2.0	3.7	1.4	1.8	0.5	0.3	0.1	0.2	0.0	18
19	0.2	0.1	0.5	1.8	3.4	1.4	1.7	0.5	0.3	0.2	0.2	0.0	19
20	0.1	0.1	0.6	1.8	3.4	1.2	1.5	0.5	0.2	0.2	0.2	0.1	20
21	0.1	0.1	0.6	1.8	3.2	1.2	1.5	0.5	0.2	0.2	0.1	0.1	21
22	0.0	0.1	31 *	1.7	4.0	1.2	1.4	0.5	0.2	0.2	0.1	0.0	22
23	0.1	0.1	19	3.2	3.7	1.1	1.4	0.5	0.3	0.1	0.1	0.0	23
24	0.2	0.1	11	2.5	3.4	1.1	1.5	0.5	0.2	0.1	0.1	0.0	24
25	0.2	0.1	22	2.4	3.4	1.1	1.4	0.5	0.2	0.0	0.1	0.1	25
26	0.0	0.1	17	2.8	3.2	1.1	1.3	0.5	0.2	0.1	0.1	0.0	26
27	0.0	0.1	12	2.7	3.2	1.1	1.2	0.5	0.1	0.1	0.1	0.0	27
28	0.1	0.2	8.2	2.8	3.1	1.1	1.1	0.4	0.1	0.1	0.1	0.0	28
29	0.2	0.2	4.6	2.7	3.1	1.2	1.1	0.4	0.0	0.0	0.2	0.1	29
30	0.2	0.2	2.7	2.7		1.2	1.1	0.4	0.1	0.1	0.2	0.0	30
31	0.2		2.4	2.8		1.3		0.4		0.0	0.1		31
MEAN	0.5	0.2	4.4	2.1	7.3	1.8	1.8	0.6	0.2	0.1	0.1	0.1	MEAN
MAX.	1.8	0.9	31	3.2	50	2.9	5.6	1.0	0.3	0.2	0.2	0.2	MAX.
MIN.	0.0	0.1	0.2	1.5	2.4	1.1	1.1	0.4	0.0	0.0	0.0	0.0	MIN.
AC. FT.	30	12	273	129	421	109	107	38	15	6	5	4	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1.6	116	3.58	2	5	2400	0.0		10	22	1300	1147

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 44 29	120 07 00	SE20 2S 17E	1090	8.13	1-21-69	DEC 65-DATE		1965		0.00	LOCAL

Station located on right bank 0.8 mile east of Greeley Hill and 4.8 miles northeast of Coulterville. Maximum discharge of record from rating curve extended above 758 cfs. There are no upstream impairments. Drainage area is 7.4 square miles.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B51250	MAXWELL CREEK AT COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.2	0.7	3.6	4.1*	1.3*	0.6	0.6*	0.0*	0.0			1
2	0.0	0.2	1.7	3.2	3.4	1.3	0.6	0.6	0.0	0.0			2
3	0.0	0.1*	2.4	2.8	3.0	1.3	0.7*	0.5	0.0	0.0			3
4	0.0*	0.1	1.6	2.4*	3.0	1.3	0.7	0.5	0.0	0.0			4
5	0.0	0.1	1.1	2.1	75	1.1	0.9	0.4	0.0	0.0			5
6	0.0	0.1	1.4	2.1	72	1.1	1.1	0.4	0.0	0.0			6
7	0.0	0.0	1.1	1.9	18	1.1	0.8	0.4	0.1	0.0			7
8	0.0	0.0	1.0*	1.8	10	1.1	0.8	0.4	0.1	0.0			8
9	0.0	0.1	0.9	1.6	7.4	1.0	0.8	0.4	0.1	0.0			9
10	0.0	0.1	1.1	1.5	6.1	1.0	0.7	0.4	0.1	0.0			10
11	0.0	1.0	1.5	1.5	4.9	0.9	1.9	0.3	0.0	0.0			11
12	0.0	4.4	2.4	1.4	4.1	0.9	3.0	0.3	0.0	0.0	N	N	12
13	0.0	2.2	4.6	1.4	3.6	0.9	6.1	0.2	0.0	0.0	O	O	13
14	0.0	1.5	2.4	1.4	3.4	0.9	2.8	0.2	0.0	0.0			14
15	0.0	0.6	2.1	1.4	2.8	0.9	2.1	0.2	0.0	0.0			15
16	0.0	0.4	1.6	1.3	2.6	0.8	1.6	0.2	0.0	0.0	F	F	16
17	0.0	0.4	1.4	1.1	2.6	0.8	1.4	0.2	0.0	0.0	L	L	17
18	0.0	0.4	1.1	1.1	2.2	0.8	1.3	0.2	0.0	0.0	O	O	18
19	0.0	0.3	0.9	1.1	2.1	0.8	1.0	0.2	0.0*	0.0	W	W	19
20	0.0	0.3	0.8	1.0	1.9	0.7	1.0	0.3	0.0	0.0			20
21	0.0	0.3	0.8	1.0	1.9	0.7	0.9	0.3	0.0	0.0			21
22	0.0	0.3	95	1.0	2.1	0.7	0.9	0.3	0.0	1.8			22
23	0.0	0.3	22	1.9	1.8	0.6	0.9	0.2	0.0	3.2			23
24	0.1	0.4	6.7	1.6	1.6	0.6	1.1	0.2	0.0	2.2			24
25	0.1	0.4	53	1.6	1.6	0.6	1.0	0.1	0.0	0.1			25
26	0.1	0.4	29	2.8	1.5	0.6	0.8	0.1	0.0	0.0			26
27	0.1	0.5	18 *	3.0	1.5	0.5*	0.7	0.0	0.0	0.0			27
28	0.1	0.8	18	10	1.4	0.5	0.7	0.0	0.0	0.0			28
29	0.1	1.0	9.3	8.2	1.4	0.6	0.7	0.0	0.0	0.0			29
30	0.1	0.8	6.1	6.1		0.5	0.7	0.0	0.0	0.0			30
31	0.1		4.9	4.9		0.5		0.0		0.0			31
MEAN	0	0.6	9.5	2.5	8.5	0.9	1.3	0.3	0	0.2			MEA
MAX.	0.1	4.4	95	10	75	1.3	6.1	0.6	0.1	3.2			MA
MIN.	0.0	0.0	0.7	1.0	1.4	0.5	0.6	0.0	0.0	0.0			MI
AC. FT.	2	35	584	154	490	52	76	16	1	14			AC.

E — ESTIMATED
NR — NO RECORD
★ — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND ★

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
2.0	503	4.90	12	22	1830	0					1425

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 42 58	120 11 20	SE34 2S 16E	1770E	5.71	12-23-64	DEC 58-DATE		1958		0.00	LOCAL

Station located on downstream side of Dogtown Road Bridge, 0.5 mile northeast of Coulterville. Tributary to Merced River. Drainage area is 17.0 square miles. Maximum discharge of record from rating curve extended above 902 cfs. Altitude of gage is 1,740 feet (from U. S. Geological Survey topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	807375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	87 *	62 *	68	212	209	104 *	201	96	71	49	79 *	109	1
2	97	62	62	187	215	104	143	114	76 *	45	77	105	2
3	106	57	63	172	220	112	160	105	58	56	87	94	3
4	114	51	69	160	225	112	175	75 *	73	72	79	88	4
5	117	51	80	149 *	241	124	183 *	70	82	70	74	88	5
6	117	51	82	134	251	128	169	75	83	80	86	93	6
7	101	57	82	137	269 *	117	178	72	81	85	95	101	7
8	81	76	77	141	364	126	158	92	92	83	96	97 *	8
9	68	85	75 *	138	370	130	137	112	99	97	96	112	9
10	67	92	70	134	324	153	129	125	114	99	113	124	10
11	61	97	64	132	292	151	120	95	106	104	125	149	11
12	52	103	59	124	271	146	130	75	99	86	114	192 *	12
13	67	115	61	111	244	147	207	69	95	89	117	169	13
14	69	126	55	114	236	149	162	94	107	74 *	103	192	14
15	80	126	51	128	231	162	180	105	105	66	117	198	15
16	79	122	47	130	212	183	181	111	94	59	107	187	16
17	75	113	51	154	216	193	186	89	78	67	114	212	17
18	70	104	56	188	223	209	171	80	88	63	113	236	18
19	66	98	56	253	225	223	120 *	84	90	66	120	226	19
20	64	92	51	267	228	225	108	90	100	99	117	218	20
21	72	95	44	260	231	236	106	106	82	93	107	223	21
22	74	89	48	258	225	236	101	109	69	90	106	199	22
23	79	85	57	263	221	221	78	115	61	88	104	151	23
24	77	79	60	262	202	204	92	117	79	88	123	119	24
25	87	77	81	243	180	198	100	120	82	98	129	133	25
26	88	72	115	236	149	177	101	117	80	112	139	153	26
27	84	65	141	238	139	161	114	107	92	100	132	134	27
28	68	64	175	229	132	158	124	104	104	92	122	109	28
29	74	66	253	233	122	160	108	100	93	97	106	103	29
30	85	70	366	228		161	94	85	67	90	117	100	30
31	77		281	209		154		71		95	124		31
MEAN	80.7	83.4	93.5	188	230	163	141	96.1	86.7	82.3	108	147	MEAN
MAX.	117	126	366	267	370	236	207	125	114	112	139	236	MAX.
MIN.	52	51	44	111	122	104	78	69	61	45	74	88	MIN.
AC. FT.	4965	4963	5752	11550	13220	10040	8362	5909	5157	5060	6621	8755	AC.FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
124	389	56.42	2	8	1800	44	54.26	12	21	1430	90360

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.O.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 18 35	120 55 45		9180a	68.05	2-26-69	MAR 37-DATE		1944	1957	-3.73	USCGS
								1957	1959	-3.77	USCGS
								1959		0.00	USCGS

Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevinson, 6.7 miles upstream from the Merced River. Drainage area is approximately 8,090 square miles. Flow records were published in U. S. Geological Survey report "Surface Water Records of California" prior to 1972.

a During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	805170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	123	111	152	158	926	146 *	107	121	69 *	67	83 *	56
2	160	116 *	158	160	926	154	107	107 *	73	76	82	50
3	210	119	158 *	223	921 *	166	95 *	83	68	77	79	55
4	281	128	164	578	931	177	76	87	65	75	76	59
5	314 *	193	164	614	962	171	90	90	64	77	79	557 *
6	642	213	160	622	931	148	128	89	79	76	72	1060
7	851	210	154	626	911	465	96	95	96	79	65	1140
8	896	192	152	630	916	871	92	95	84	75	73	1190
9	876	126	148	635	811	530	83	92	62	72	73	1200
10	468	137	148	630	501	166	75	87	59	73	83	1210
11	124	156	148	703	451	166	166	119	71	73	84	1220
12	112	160	152	886	441	197	164	99	84	82	89	1220
13	109	148	150	906	444	173	139	96	68	80	90	1260
14	117	145	154	896	434	131	99	95	62	75	86	1280
15	117	145	156	886	427	145	103	89	69	64	75	1250
16	117	145	158	886	434	133	101	87	80	72	72	1250
17	117	145	156	876	322	132	104	98	79	79 *	72	1250
18	107	145	156	906	156	137	111	101	75	71	73	1280
19	106	148	156	931	152	141	103	96	76	73	76	1290
20	107	152	152	921	150	133	89	99	73	75	77	1300 *
21	106	150	166	916	146	124	92	96	72	72	76	1300
22	107	150	185	906	146	145	121	90	68	76	79	1080
23	106	152	175	906	145	137	87	80	60	72	68	936
24	101	152	168	901	146	99	93	82	71	64	58	936
25	101	160	166	926	143	92	93	89	79	54	46	941
26	111	160	166	916	141	73	99	95	82	58	47	952
27	111	148	189	921	133	86	103	103	65	71	45	743
28	107	162	226	946	133	86	99	98	71	84	54	639
29	107	156	171	916	137 *	89	107	89	67	77	54	664
30	107	150	168 *	906		95	126	84	62	89	55	766
31	107		166	906		104		68		82	55	
MEAN	230	152	163	766	463	181	105	93.5	71.8	73.9	70.8	938
MAX.	896	213	226	946	962	871	166	121	96	89	90	1300
MIN.	101	111	148	158	133	73	75	68	59	54	46	50
AC. FT.	14130	9072	10000	47090	26610	11130	6244	5750	4270	4542	4356	55800

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
275	1310	9.36	9	19	1400	38	5.77	8	27	1400	199000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		221.12	USGS

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by upstream reservoirs and dams. Drainage area is 1,096 square miles. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	220	172	201	257	905	190	125	128	89 *	89	74 *	72	1
2	233	175 *	201	247	911	198	151	128 *	69	89	60	57	2
3	268	177	214 *	247	911 *	206	154 *	110	67	82	82	72	3
4	323	183	214	338	911	222	133	107	67	112	107	67	4
5	378 *	198	217	606	929	230	120	102	72	135	89	77 *	5
6	436	241	214	655	1020	217	125	94	64	112	67	460	6
7	820	271	214	669	967	193	164	97	72	97	77	982	7
8	935	274	212	672	920	577	135	97	82	62	50	1220	8
9	955	257	209	672	920	803	138	92	94	60	47	1230	9
10	943	196	209	690	756	388	138	105	84	97	64	1250	10
11	479	201	212	667	849	241	128	82	100	92	62	1250	11
12	236	228	212	788	515	220	222	100	112	77	69	1280	12
13	206	230	214	890	495	241	247	115	105	69	87	1290	13
14	185	220	209	902	495	217	201	110	115	74	84	1290 *	14
15	190	209	212	896	487	180	169	117	87	94	64	1290	15
16	198	206	214	896	490	180	167	110	74	74	60	1260	16
17	198	206	220	885	487	164	161	97	84	64 *	60	1270	17
18	201 E	204	220	873	337	161	146	100	117	74	55	1270	18
19	193 E	204	225	905	249	175	135	107	92	97	57	1270	19
20	188 E	204	222	920	236	196	120	115	89	87	94	1280	30
21	185 E	206	220	908	230	177	105	130	94	92	105	1270	21
22	180 E	204	247	905	228	154	105	141	79	97	87	1260	22
23	185	204	268	902	214	188	133	120	67	94	82	1020	23
24	180	206	260	893	209	188	146	107	69	94	79	973	24
25	175	204	255	896	212	151	105	97	77	84	62	958	25
26	169	209	249	911	164	156	112	89	94	60	55	967	26
27	175	209	257	908	193	115	115	87	100	19	62	967	27
28	180	201	381	943	196	105	120	102	84	21	79	745	28
29	177	212	386	929	193 *	115	100	123	57	40	79	707	29
30	175	204	260 *	917		130	107	125	67	69	79	748	30
31	175		239	908		130		112		79	74		31
MEAN	314	210	235	764	539	220	141	108	84	80	72.6	928	MEAN
MAX.	955	274	386	943	1020	803	247	141	117	135	105	1290	MAX.
MIN.	169	172	201	247	164	105	100	82	57	19	47	57	MIN.
AC. FT.	19320	12530	14450	47000	31000	13500	8384	6637	5004	4931	4467	55244	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
305	1607	15.78	9	8	1430	3.8	10.50	7	27	2000	222500

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67	12-4-50	JUL 41-DATE	APR 41-JUL 41	1950	1962	96.24	USCGS
				32.67a	12-4-50			1962		86.23	USCGS

Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flows regulated by upstream reservoirs and diversions. Drainage area is 1,224 square miles.

a Reflects present datum.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B00525	MUSTANG CREEK NEAR BALLICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16					INSUFFICIENT DATA TO PUBLISH							
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MEAN												
MAX.												
MIN.												
AC. FT.												

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 29 58	120 39 48	NW16 5S 12E	281	5.63	1-21-69	NOV 65a-DATE		1965		0.00	LOCAL

Station located at Oakdale Road Bridge, 4.0 miles northeast of Ballico. Altitude of gage is 180 feet (from U. S. Geological Survey topographic map). Drainage area is 11 square miles.

a Discharge measurements and partial gage height records are available in DWR files.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B08720	ORESTIMBA CREEK NEAR CROWS LANDING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.6	3.6*	0.0		0.0	8.3	4.0	16	14	12	13	8.8	1
2	1.5	1.9	0.0		0.0	6.9*	16	19	11	12	12 *	8.0	2
3	0.8	2.4	0.2		0.0	5.8	19	27 *	22	15	14	26	3
4	1.8	2.8	1.0		0.0*	7.6	7.8*	3.0	13	9.6	15	37	4
5	1.7	1.5	0.4		0.0	9.9	6.4	25	20 *	8.6	11	35	5
6	1.3	1.4	0.3	*	0.0	7.8	26	16	8.8	10	8.8	12	6
7	1.0*	2.1	1.6		0.0	4.7	4.4	15	7.8	16	12	4.6*	7
8	0.3	1.1	3.0		0.0	6.9	2.8	32	6.4	18	11	3.8	8
9	0.4	1.1	5.5		0.0	6.0	4.2	16	3.6	26	13	12	9
10	0.4	0.9	5.3*		0.0	16	4.0	12	24	23 *	20	7.8	10
11	0.5	3.2	3.5		0.4	18	3.8	12	25	24	14	22	11
12	1.7	3.4	2.3	N	0.3	13	23	13	11	18	13	29	12
13	0.8	8.6	2.7	O	0.6	8.6	7.3	13	7.1	12	16	10	13
14	0.9	5.5	2.3		0.3	6.2	8.3	14	9.3	9.9	19	5.5	14
15	1.0	1.9	2.4		0.4	5.5	6.4	15	9.1	12	11	4.6	15
16	1.7	0.6	0.7	F	0.3	4.4	4.9	18	11	14	8.8	3.0	16
17	0.6	1.1	1.1	L	0.1	10	9.6	16	12	15	9.6	4.2	17
18	0.6	0.9	1.7	O	0.0	8.6	10	12	25	13	13	19	18
19	0.8	2.2	1.6	W	0.6	12	12	14	14	16	14	9.3	19
20	0.6	1.9	1.2		0.9	26	12	6.4	26	19	27	10	20
21	8.3	0.9	1.6		1.3	9.3	16	4.7	31	21	24	21	21
22	0.8	0.4	0.6		1.3	6.4	17	7.8	15	19	23	8.0	22
23	0.7	0.2	0.5		1.9	9.9	10	6.0	11	16	11	9.9	23
24	0.5	0.1	0.2		3.3	18	12	2.3	38	19	6.4	10	24
25	0.3	0.1	2.4		4.0	5.3	9.9	2.7	27	23	6.4	12	25
26	0.5	0.1	0.5		4.9	4.2	11	15	32	17	5.1	13	26
27	1.3	0.1	1.6		5.8	7.8	6.2	17	24	14	2.1	10	27
28	1.1	0.0	1.4		4.0	9.3	9.3	19	9.6	16	5.5	10	28
29	0.6	0.0	0.2		6.6	6.9	8.0	17	11	16	26	5.5	29
30	0.4	0.0	0.0			9.1	10	7.8	11	22	10	4.4	30
31	2.8		0.0			13		9.3		20	16		31
MEAN	1.2	1.7	1.5		1.3	8.0	10.0	13.6	16.3	16.3	13.2	12.5	MEAN
MAX.	8.3	8.6	5.5		6.6	26	26.0	32	38	26	27.0	37.0	MAX.
MIN.	0.3	0.0	0.0		0.0	4.2	2.8	2.3	3.6	8.6	2.1	3.0	MIN.
AC. FT.	72	99	91		73	494	598	839	971	1004	815	745	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
8.0	56.0	49.67	6	24	1730	0		11	28	0015	5801

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 24 51	121 00 52	NE18 6S 9E	2650E	12.08a	2-1-63	DEC 57-SEP 72		1957	1972	0.00	LOCAL USCGS

Station located 40 feet upstream from River Road Bridge, 3.7 miles southeast of Crows Landing. Prior to February 1, 1968, the station was located 500 feet downstream and was on local datum. During summer months most flows are irrigation drainage returned to San Joaquin River. Maximum discharge of record from rating curve extended above 1,654 cfs. Record discontinued September 30, 1972, at this location. Records will be obtained at a station formerly operated by the U. S. Bureau of Reclamation 4 miles upstream at Highway 33. Starting October 1, 1972.
Stage discharge relationship affected by backwater from San Joaquin River.
a Local datum then in use.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	807250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	D
1	421	384	491	773	1450	480	474	383	241	232	294	335	
2	439	377	491	718	1440	483 *	480	375	272	218	264 *	327	
3	431	379 *	497	684	1440	507	516	411 *	269	198	262	337	
4	445	369	516	653	1440	477	495 *	359	260	209	262	359	
5	494	369	522	647	1440	483	501	353	291 *	243	260	348	
6	527	369	542	777	1460	526	526	369	250	243	267	329	
7	547 *	397	527	867	1520	510	495	356	236	252	291	337 *	
8	647	439	505	930	1570	513	504	397	255	241	277	644	
9	819	466	508	945	1580 *	614	489	397	262	257	250	987	
10	881	480	498 *	957	1560	923	460	416	322	279 *	267	1220	
11	932	469	480	964	1430	863	462	394	343	281	304	1330	
12	813	458	474	961 *	1240	728	489	351	337	281	324	1420	
13	602	466	448	991	1150	644	480	332	309	257	317	1470	
14	533	502	439	1100	1100	601	516	329	309	238	327	1510	
15	508	519	433	1150	1060	579	541	348	291	234	327	1560	
16	519	516	425	1190	1040	588	576	364	284	238	356	1590	
17	494	522	419	1260	999	604	576	332	284	245	311	1610	
18	458	497	436	1360	976	576	557	306	279	255	332	1700	
19	439	475	431	1480	893	595	486	286	277	205	324	1670	
20	410	466	422	1550	784	634	388	296	260	216	364	1680	
21	400	483	408	1570	749	627	377	319	262	277	353	1710	
22	395	502	419	1560	718	627	380	351	222	272	340	1720	
23	416	516	454	1560	690	588	364	337	213	289	332	1700	
24	405	508	480	1550	663	560	367	351	250	345	337	1500	
25	400	505	538	1530	617	535	372	340	289	335	359	1350	
26	416	497	588	1510	591	486	400	361	311	306	372	1320	
27	421	483	674	1510	566	462	394	343	314	277	369	1310	
28	410	472	721	1500	535	445	391	324	296	272	383	1280	
29	387	485	809	1510	501	477	411	343	277	269	369	1170	
30	397	485	923	1500		460	383	327	255	296	309	1080	
31	416		874	1470		468		289		306	332		
MEAN	510	462	529	1185	1076	570	462	350	277	261	317	1160	M
MAX.	932	522	923	1570	1580	923	576	416	343	345	383	1720	M
MIN.	387	369	408	647	501	445	364	286	213	198	250	327	M
AC. FT.	31380	27480	32510	72850	61890	35030	27470	21500	16500	16000	19510	69230	A

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
594	1730	42.18	9	22	1100	183	37.78	7	3	2100	431400

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 26 52	121 00 44	NW 8 6S 9E	30760	58.81	2-26-69	OCT 65-SEP 72	41-SEP 72		1959	0.00	USED
								1959		0.00	USGS
								1959		3.51	USED

Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing.
Flows regulated by upstream reservoirs, and diversions. Record discontinued September 30, 1972.
New station installed at Patterson Road Bridge.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	807200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	550	424	518	845	1410	391	523	368	200	192	309	358	1
2	567	411	526	789	1400	423 *	568	321	209	175	265 *	356	2
3	562	407 *	525	753	1390	441	601	329	245	157	254	369	3
4	571	403	539	727	1390 *	395	559	309	236	157	259	433	4
5	613	397	550	715	1390	390	547	295 *	276 *	234	261	424	5
6	643 *	399	563	806 *	1400	411	569 *	338	226	242	286	437	6
7	662	415	554	897	1450	383	551	342	212	223	304	461 *	7
8	713	448	542	953	1500	387	506	390	227	207	298	645	8
9	881	484	539	974	1520	407	537	402	261	218	273	926	9
10	973	499	543 *	981	1510	678	524	421	282	248	271	1210	10
11	1030	503	521	985	1430	722	478	421	351	239	308	1360	11
12	979	497	521	986	1230	602	515	357	345	252	335	1530	12
13	765	496	497	996	1120	544	471	321	327	239 *	354	1720 *	13
14	656	517	492	1080	1070	523	467	307	292	214	369	1660 *	14
15	620	535	486	1130	1030	485	507	329	276	193	330	1740	15
16	627	543	477	1170	995	481	531	333	283	203	373	1770	16
17	581	546	472	1220	967	507	521	384	269	238	356	1810	17
18	539	530	481	1310	936	475	459	311	257	226	372	1890	18
19	521	509	486	1420	875	486	424	250	274	210	359	1890	19
20	486	496	477	1500	780	560	317	270	261	201	390	1850	20
21	468	498	474	1540	733	587	267	318	257	238	392	1850	21
22	462	524	485	1530	697	683	271	375	228	261	355	1850	22
23	473	538	504	1520	674	550	289	347	196	284	350	1860	23
24	467	541	533	1520	644	495	288	322	219	310	341	1750	24
25	453	535	594	1500	601	504	252	288	288	318	378	1570	25
26	462	528	635	1480	573	462	265	273	304	299	401	1490	26
27	462	514	705	1490	544	438	289	283	280	278	414	1490	27
28	453	506	772	1480	503	417	339	294	252	288	435	1450	28
29	437	509	834	1470	433	447	363	285	243	267	413	1360	29
30	435	517	930	1470		455	358	267	234	285	326	1270	30
31	443		932	1440		479		201		310	351		31
MEAN	599	489	571	1183	1041	491	439	324	260	239	338	1293	MEAN
MAX.	1030	546	932	1540	1520	722	601	421	351	318	435	1890	MAX.
MIN.	435	397	472	715	433	383	252	201	196	157	254	356	MIN.
AC. FT.	36800	29100	35120	72750	59890	30170	26100	19940	15490	14690	20790	76920	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
603	1940	36.09	9	18	1715	135	32.66	7	3	2400	437700

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 29 52	121 04 52	SW15 5S 8E		54.0	6-13-38		APR 38-SEP 66	1938	1959	0.00	USED
				50.47a	6-13-38	OCT 69-DATE		1959		0.00	USCGS
			5460b	42.65	3- 9-70			1959		3.53	USED

Station located 1000 feet downstream on left bank from the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Drainage area is 9,758 square miles.

a Reflects present datum.
b Maximum discharge since station was rated in October 1969.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B04175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1													1
2													2
2													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16				THIS STATION DISCONTINUED AS OF SEPTEMBER 30, 1971									16
17				* SEE BELOW									17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEA
MAX.													MA
MIN.													MI
AC. FT.													AC.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 39 59	120 27 40	NW20 3S 14E	52200	188.0 186.29	12- 8-50 1-26-69	OCT 36-SEP 60 OCT 61-SEP 71		1937	1971	1.76	USGS

Station located at Highway bridge, immediately north of La Grange. Flow regulated by La Grange and Don Pedro Dams. Diversions to Modesto and Owens Canals are above La Grange Dam. Drainage area is 1,540 square miles.

* A new FPC station was installed upstream 1.2 miles by the City and County of San Francisco. The station is operated by the U. S. Geological Survey. Since October 1, 1970, these data are published in the USGS "Water Resources Data for California," Volume 2, Part 1, Surface Water Records.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	98	371	463	448	755	865 *	362	174	72	73	73 *	64	1
2	291	517	463	418	1130	605	213	118 *	73 *	70	65	61	2
3	319	557 *	474	449	1090	479	201 *	103	70	70	68	67	3
4	315	575	463	865	934	433	188	99	72	62	72	73	4
5	315	563	469	777	903	428	207	97	72	62	70	70 *	5
6	303 *	433	469	728 *	423	418	230	91	67	65	68	68	6
7	367	428	495	714	515 *	428	194	88	68	68	72	73	7
8	328	428	517 *	599	879	428	191	86	70	68	68	68	8
9	328	433	534	390	880	433	194	82	73	70	68	61	9
10	315	428	592	428	617	433	194	84	77	70	72	65	10
11	336	443	629	707	721	428	204	84	75	62	70	68	11
12	336	448	636	453	469	433	207	84	77	65 *	70	61	12
13	332	443	655	534	371	428	197	84	65	67	73	61	13
14	349	448	728	479	528	428	191	82	64	70	77	59	14
15	882	438	770	413	721	423	188	77	70	67	72	59	15
16	1220	443	813	353	681	428	188	70	70	70	70	59	16
17	515	443	798	367	674	438	182	77	70	68	72	56	17
18	394	443	770	569	661	438	177	78	73	61	75	55	18
19	160	453	756	523	523	448	180	78	70	62	64	54	19
20	452	453	661	438	433	443	180	78	65	64	75	52	20
21	165	453	404	438	367	448	185	82	67	68	75	54	21
22	155	448	399	358	433	453	188	80	70	72	65	54	22
23	343	453	438	362	661	458	185	78	73	73	64	51	23
24	345	453	376	358	721	458	182	73	78	75	67	50	24
25	315	458	390	443	756	458	180	75	75	72	77	51	25
26	367	463	371	418	657	458	180	75	73	67	78	43	26
27	563	458	376	428	371	458	174	78	68	65	75	46	27
28	569	474	423	385	425	453	177	78	65	70	75	48	28
29	575	474	663	385	706	458	180	78	64	73	72	52	29
30	569	463	731	385		453	182	75	72	78	67	54	30
31	479		669	394		453		72		77	67		31
MEAN	400	460	561	484	655	461	196	85.7	70.6	68.5	70.8	58.6	MEAN
MAX.	1220	575	813	865	1130	865	362	174	78	78	78	73	MAX.
MIN.	98	371	371	353	367	418	174	72	64	61	64	43	MIN.
AC. FT.	24600	27340	34500	29760	37700	28350	11660	5272	4201	4213	4356	3485	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
297	2875	73.25	10	16	0200	43	69.57	9	26	0100	215,400

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932		-1.13	USCGS

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. Drainage area is 1,655 square miles. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	72	24 *	17 *	77	46	36	101	71 *	55	49	44	57	
2	90	22	17	52	37	79	99	65	57 *	48	44	59	
3	90	23	17	37	30	28	100	46	60	44	47 *	60	
4	90 *	22	18	28 *	25	56	115 *	47	60	47	42	69	
5	96	19	51	24	26	60	113	48	60	46	48	53 *	
6	92	19	41	21	98	52	124	43	56	44	48	43	
7	93	19	27	19	244 *	72	117	48	53	44	49	51	
8	166	19	20	17	119	71	103	51	55	46	36	66	
9	172	19	19	16	83	80	99	57	55	43	36	62	
10	176	18	17	16	59	82	94	62	47	41	39	60	
11	181	17	15	14	44	72	98	51	56	46 *	39	59	
12	187	20	16	13	37	79	104	66	63	44	46	71	
12	186	29	15	11	31	83	104	68	63	44	44	66	
14	205	23	14	11	27	86	97	52	69	44	56	71	
15	245	21	14	10	27	79	99	62	69	43	47	69	
16	275	19	14	10	34	80	83	60	71	43	51	51	
17	268	17	14	11	29	79	78	56	68	42	46	63	
18	193	17	12	11	26	80	78	53	60	41	62	74	
19	131	17	12	9.8	25	88	69	65	53	41	56	77	
20	132	16	11	9.8	23	88	76	48	49	41	48	76	
21	41	17	11	9.4	22	90	76	52	43	40	49	68	
22	29 *	17	16	9.0	34	93	79	65	40	41	51	62	
23	23	16	47	8.7	39	85	81	72	38	42	55	59	
24	19	16	88	8.7	40	83	81	69	41	43	59	68	
25	17	15	142	9.0	35	83	78	69	40	44	59	69	
26	19	16	327	8.7	30	86	66	65	44	44	65	80	
27	21	17	225 *	9.8	28	93	66	71	48	47	55	80	
28	19	17	336	148	25	96	66	69	49	47	62	78	
29	19	16	473	315	25 *	106	68	76	48	47	57	78	
20	20	17	151	116		113	72	62	46	47	57	76	
21	23		93	71 *		109		59		46	49		
MEAN	109	19	73.9	36.5	46.5	79.6	89.5	59.6	53.9	44.2	49.9	65.8	ME
MAX.	275	29	473	315	244	113	124	76	71	49	65	80	MA
MIN.	17	15	11	8.7	22	28	66	43	40	40	36	43	MI
AC. FT.	6724	1120	4542	2243	2674	4893	5324	3665	3205	2720	3066	3917	AC.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
61	731	73.97	12	29	0100	8.7	67.51	1	23	0015	44090

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USCGS

Station located 0.1 mile downstream from Claus Road bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941 records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	258	564	582	825	617	814	624	350	215	169	197	158	1
2	275	497	582	672	892	939 *	595	342 *	220 *	160	175	171	2
3	393	579 *	595	624	1150	794	467	310	218	182	165	171	3
4	438	617	608	676	1150	656	438	270	215	180	158 *	186	4
5	458	633	598	917	1090	627	427	263	215	160	165	213	5
6	479	614	617	885	965	617	461 *	258	211	165	169	202 *	6
7	470 *	545	614	857 *	828	611	461	265	195	156	177	197	7
8	539	539	624 *	842	892	630	424	265	180	158	182	193	8
9	592	533	630	752	1070	627	410	265	182	173	173	197	9
10	592	536	679	605	998	627	404	263	188	180	158	191	10
11	601	536	839	624	846	627	396	251	204	173 *	167	193	11
12	630 E	564	896	776	885	624	407	241	211	169	188	193	12
13	635 E	567	907	646	692	643	418	241	211	163	165	220	13
14	660 E	567	910	676	595	633	396	225	173	165	175	225	14
15	760 E	564	965	643	752	617	385	241	193	156	182	211	15
16	1400 E	554	1060	592	825	595	382	234	191	163	175	197	16
17	1300 E	554	1100	542	832	601	374	227	204	163	180	193	17
18	1050 E	548	1100	558	825	611	358	225	202	163	180	215	18
19	820 E	558	1080	662	811	624	363	236	197	160	202	220	19
20	755 E	558	1020	649	699	646	347	241	186	163	195	232	20
21	640	561	828	608	617	624	352	243	177	163	182	218	21
22	427	561	662	595	548	624	352	246	182	180	169	220	22
23	358	567	601	533	620	620	358	243	182	184	158	222	23
24	435	567	589	521	783	620	360	232	177	199	160	234	24
25	458	567	682	515	849	617	366	220	171	193	167	234	25
26	435	567	732	579	864	608	350	213	171	188	171	227	26
27	479	570	839	579	769	595	342	225	186	184	193	232	27
28	595	576	742	589	582	592	331	227	173	182	188	222	28
29	624	586	1050	787	620	598	328	239	171	175	175	222	29
30	627	589	1020	722		614	342	225	171	180	169	222	30
31	630		921	620 *		620		225		197	167		31
MEAN	557	565	796	667	816	642	401	250	192	172	175	208	MEAN
MAX.	1400 E	633	1100	917	1150	939	624	350	220	199	202	234	MAX.
MIN.	258	497	582	515	548	592	328	213	171	156	158	158	MIN.
AC. FT.	37320E	33600	48940	41000	46930	39460	23840	15370	11450	10600	10760	12360	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
456	1750E	27.26E	10	16		148	22.32	7	15	1600	311,800

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	1930-DATE			1959	0.00	USED
				43.15a	12- 9-50			1960		0.00	USCGS
			37900b	42.86	1-27-69			1960		3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.

a Reflects present datum.
b Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	899 *	1100	1180	1810	1840	1270 E	1130	888	534	474	551	598
2	941	980	1190	1680	1930	1280 #	1220	859	485	401	516	574
3	1060	1010	1210	1610	2080	1240	1130	791	494	442	448 *	574
4	1110	1010 *	1240	1580	2100	1180 E	1030	752	536	410	437	604
5	1130	997	1240	1700	2080	1120 E	993	725 *	550 *	429	463	693
6	1190	1000	1270	1710	2050	1070 E	1070 *	760	555	459	536	691 *
7	1220	952	1280	1750	1980	1080 E	1080	631	528	432	578	672
8	1280	961	1270	1780	2000	1060 E	1040	836	512	423	570	727
9	1420	983	1280	1760	2110	1070 E	1030	852	527	421	509	899
10	1590	1010	1310 *	1700	2130	1190	1050	857	554	435	494	940
11	1670	1020	1400	1670 *	2080	1320	948	860	604	457	492	941
12	1650	1050	1430	1770	2040	1310 E	1010	836	669	445 *	537	941
13	1590	1050	1440	1730	1870	1270 E	1040	772	631	436	566	941
14	1450	1070	1430	1730	1730	1240 E	972	711	597	446	595	941
15	1540	1080	1440	1680	1720	1220 E	1000	674	549	417	589	941
16	1810	1090	1500	1660	1770	1230 E	1020	678	507	447	575	941
17	2160	1080	1530	1650	1760	1230 E	1010	726	507	475	616	941
18	1770	1080	1540	1680	1730	1220 E	1000	736	502	424	608	941
19	1430	1070	1530	1770	1700	1210 E	980	696	502	401	620	941
20	1340	1080	1500	1830	1620	1230 E	878	682	503	364	681	941
21	1250	1110	1410	1840	1500	1230 E	822	708	483	399	651	941
22	1040	1140	1310	1840	1420	1270	801	758	481	440	594	942
23	944	1170	1270	1820	1390	1290	848	756	470	489	556	942
24	1010	1160	1260	1810	1410 E	1210	885	681	454	530	547	942
25	1060	1150	1390	1810	1450 E	1190	866	659	549	538	558	941
26	1020	1160	1580	1830	1420 E	1170	837	624	549	516	584	941
27	1050	1160	1700	1840	1360 E	1100	825	638	526	467	613	941
28	1140	1160	1720	1850	1280 E	1050	840	635	522	474	664	941
29	1130	1170	1650	1920	1220 E	1060	845	626	482	505	677	941
30	1130	1180	1920	1950		1100	883	568	477	501	633	941
31	1120		1880	1880 *		1090		554		568	557	
MEAN	1295	1074	1435	1763	1751	1187	970	733	528	454	568	860
MAX.	2160	1180	1920	1950	2130	1320	1220	888	669	568	681	942
MIN.	899	952	1180	1580	1220	1050	801	554	454	364	437	574
AC. FT.	79620	63930	88260	108400	100700	72990	57690	45080	31420	27900	34940	51160

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1050	2280	16.95	10	17	0600	344	12.42	7	20	0015	762100

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 38 28	121 13 37	SW29 3S 7E		38.31a	1-27-69	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED
						OCT 65-DATE	APR 52-SEP 65	1959		0.00	USCGS
								1959		3.41	USED

Station located at State Highway 132 Bridge, 13 miles west of Modesto, two miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions. Drainage area is 12,400 square miles.

a This maximum gage height of record does not represent the maximum discharge of record as the station was affected by backwater from the Stanislaus River.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B03175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	103	58 *	474 *	1820	563	155	41	28 *	29	25	24	32 *	1
2	103	121	488	1810	557 *	159	45	26	29	24	28 *	33	2
3	100	132	478	1800	566	189	40	26	30	27	25	30	3
4	100 *	133	478	1800	566	168	36 *	27	30	28	27	36	4
5	98	137	478	1790	729	153	38	29	28 *	27	27	37	5
6	90	151	478	1780	706	159	46	27	28	25	30	33	6
7	90	155	488	1770	609	145	39	28	33	30	28	30	7
8	92	161	488	1770	653	130	35	27	32	28	26	28	8
9	89	205	488	1760	1030	132	34	26	30	25	28	29	9
10	89	192	492	1740	1490	126	38	26	29	27	29	27	10
11	90	198	492	1710	1330	102	37	26	31	27	28	28	11
12	120	159	503	1700	961	97	32	26	30	23 *	30	28	12
13	225	159	514	1360	580	97	29	27	28	20	34	32	13
14	237	161	587	853	667	97	25	26	28	23	34	37	14
15	285	159	779	863	722	95	23	28	25	24	38	39	15
16	393	168	774	858	669	94	24	27	25	28	40	32	16
17	342	168	779	733	664	89	20	27	33	29	38	28	17
18	313	239	788	552	649	87	21	27	35	28	38	28	18
19	287	742	783	544	644	90	23	28	28	26	40	25	19
20	266	756	783	540	539	92	25	148	25	24	38	23	20
21	276	756	774	540	298	89	24	109	24	25	36	25	21
22	370	621	848	544	298	87	32	36	27	28	37	25	22
23	336	364	850	548	308	87	30	34	26	26	39	26	23
24	333	432	1840	548	308	86	30	53	25	28	38	26	24
25	268	533	2180	548	305	86	29	30	22	28	38	28	25
26	73	463	1910	559	292	86	34	28	21	27	38	33	26
27	63	467	1990	587	210	77	33	35	22	27	35	34	27
28	62	481	2090	671	207	54	25	38	23	26	36	33	28
29	64	474	1880	575	189 *	47	27	34	22	23	35	36	29
30	59	474	1850	567		43	28	28	27	24	32	28	30
31	58		1840 *	567		39		29		23	32		31
MEAN	177	314	957	1091	597	104	31.4	35.9	27.5	25.9	33.0	30.3	MEAN
MAX.	393	756	2180	1820	1490	189	45	148	35	30	40	39	MAX.
MIN.	58	58	474	540	189	39	20	26	21	20	24	23	MIN.
AC. FT.	10860	18680	58840	67060	34330	64200	1870	2210	1640	1590	2035	1803	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
286	2627	7.02	12	28	0030	19.6	1.19	7	13	2000	207300

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 28-DEC 39 APR 40-DATE				117.21	USCGS

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. Equipped with radio telemeter.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	502	242 *	574	1744	622	373	231	173	149	121	119	115	1
2	509	226	582 *	1735	619 *	361 *	212	153 *	155	127	119	120	2
3	549	231	591	1732 *	613	430	218	146	165	118	121 *	140	3
4	572 *	256	591	1725	615	448	208 *	157	161	138	122	145	4
5	599	260	582	1722	626	378	223	168	169 *	142	116	142	5
6	589	260	580	1719	693	380	252	160	137	137	124	150 *	6
7	537	265	580	1716	710	400	256	171	139	148	121	161	7
8	555	271	585	1713	652	392	248	158	168	141	154	144	8
9	527	276	597	1703	665	381	253	161	156	147	118	123	9
10	537	297	589	1693	844	381	264	147	158	135	112	152	10
11	526	308	591	1687	1143	361	250	147	166	115 *	119	144	11
12	531	316	597	1681	1125	359	221	163	150	114	111	141	12
13	593	315	611	1659	895	343	210	143	144	112	121	129	13
14	704	298	611	1420	710	325	201	148	141	110	135	126	14
15	821	294	644	1040	691	299	226	145	129	97	156	141	15
16	892	290	770	986	716	287	224	149	127	124	129	150	16
17	947	291	803	957	689	301	209	159	143	143	121	144	17
18	761	291	817	869	681	314	186	153	161	150	128	137	18
19	587	318	823	731	671	315	164	147	146	130	139	144	19
20	522	568	828	693	665	331	161	143	125	135	143	139	20
21	495	700	832	669	622	297	160	174	131	134	125	137	21
22	446	740	846	659	500	271	184	222	120	135	134	149	22
23	568	700	906	652	465	284	179	201	127	156	128	152	23
24	801	524	945	644	457	294	184	169	135	144	119	150	24
25	823	502	1461	638	448	311	169	165	152	132	129	179	25
26	801	559	1948	632	455	280	163	147	141	121	130	175	26
27	665	561	1858	636	438	256	154	147	120	108	137	173	27
28	603	570	1921	654	400	264	160	159	117	114	124	189	28
29	572	582	1993	691	397	261	176	171	133	117	116	188	29
30	574	578	1799	644		259	169	159	116	121	126	190	30
31	277		1757	628		255		177		127	112		31
MEAN	612	396	942	1164	649	329	204	161	143	129	126	149	MEAN
MAX.	947	740	1993	1744	1143	448	264	222	169	156	156	190	MAX.
MIN.	277	226	574	628	397	255	154	143	116	97	111	115	MIN.
AC. FT.	37660	23580	57940	71550	37340	20210	12130	9882	8491	7920	7751	8864	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
418	2110	35.07	12	29	0030	93	26.22	7	15	1900	303300

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 41 57	121 10 08	SW 2 3S 7E		50.5	12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950	1962	-0.63	USC&GS
								1963	1970	0.37	USC&GS
								1970		0.00	USC&GS

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates road junction, 3.7 miles southwest of Ripon. Drainage area is 1,094 square miles.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1580 *	1610 *	1860	3600	2860	1400	1230	880	596 *	532	548	532	1
2	1640	1450	1840	3370	2950	1460	1370	780	556	472	520	536	2
3	1790	1430	1860 *	3260	3300	1500	1290	780	516	492	452	548	3
4	1930	1470	1880	3170	3380	1460	1130	748	568	456	431	584	4
5	1920	1490	1880	3370	3340	1310	1080	698	636	484 *	452	680	5
6	2020	1500	1890	3390	3330	1240 *	1240	716	620	496	512	703	6
7	2010	1440	1890	3420 *	3230	1260	1290	815	572	484	580	658	7
8	2080	1440	1880	3480	3190 *	1250	1250	845 *	572	473	556	690	8
9	2210	1470	1900	3470	3390	1260	1210	865	588	448	528	850	9
10	2440	1510	1910	3370	3530	1410	1280 *	870	644	488	470 *	1170	10
11	2540	1550	2050	3320	3640	1630	1100	860	667	484	459	1460	11
12	2510	1570	2130	3460	3650	1600	1110	850	752	476	488	1540 *	12
13	2580	1580	2150	3410	3220	1520	1170	785	694	484	508	1650	13
14	2420	1560	2140	3340	2790	1420	1070	716	632	470	536	1800	14
15	2620	1550	2160	3000	2660	1370	1100	658	588	428	560	1820	15
16	2960	1550	2330	2870	2770	1350	1130	644	560	410	540	1880	16
17	3590	1550	2440	2810	2750	1380	1110	694	556	480	580	1980	17
18	3610	1550	2470	2800	2690	1370	1040	748	588	456	572	2120	18
19	3500	1540	2480	2830	2620	1370	1000	708	568	434	588	2170	19
20	2700	1660	2470	2920	2480	1390	860	672	576	403	632	2180	20
21	2140	1890	2370	2920	2200	1390	766	716	572	424	654	2170	21
22	1940	1980	2200	2900	1960	1440	739	805	548	459	584	2230	22
23	1690	2050	2150	2860	1880	1560	809	830	516	528	548	2240	23
24	1930	1910	2190	2820	1910	1490	865	757	500	564	504	2260	24
25	2070	1820	2540	2810	1980	1470	815	716	576	556	524	2190	25
26	2010	1830	3150	2840	1920	1390	805	680	632	532	540	2050	26
27	1970	1860	3400	2860	1840	1280	830	676	592	466	588	2060	27
28	1960	1860	3430	2870	1530	1160	845	654	568	459	628	2150	28
29	1930	1860	3720 /	3020	1350	1170	785	628	548	516	624	2070	29
30	1860	1860	3860	3110		1240	785	662	508	504	596	1930	30
31	1680		3730	2950		1230		620		560	532		31
MEAN	2253	1646	2398	3117	2701	1380	1037	744	587	481	543	1563	MEAN
MAX.	3610	2050	3860	3600	3650	1630	1370	880	752	564	654	2260	MAX.
MIN.	1580	1430	1840	2800	1350	1160	739	620	500	403	431	532	MIN.
AC. FT.	138500	97970	147500	191600	155400	84830	61710	45770	34930	29590	33390	93030	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
1535	3930	13.78	12	30	0600	403	8.23	7	20		1114000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 40 34	121 15 55		79000	27.75	12-9-50	JUL 22-DEC 23		1931	1959	8.4	USED
				32.81a	12-9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 28		1931	1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs as water was bypassing the station through levee breaks upstream from station.

TABLE B-3(Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	C01120	SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	8					0	29		1
2				0	0					0	28		2
3				0	0					0	28		3
4				0	0					0	9		4
5				0	0					0	0		5
6				0	0					0	0		6
7				0	0					0	0		7
8				0	0					0	0		8
9				0	0					0	0		9
10				0	0					0	0		10
11				0	0					0	0		11
12	N	N	N	0	0					0	0		12
13	O	O	O	0	0	N	N	N	N	0	0	N	13
14				0	0	O	O	O	O	0	0	O	14
15				0	0					0	0		15
16	F	F	F	0	0	F	F	F	F	0	13	F	16
17	L	L	L	0	0	L	L	L	L	0	21	L	17
18	O	O	O	0	0	O	O	O	O	0	21	O	18
19	W	W	W	0	0	W	W	W	W	0	21	W	19
20				0	0					0	19		20
21				0	0					0	19		21
22				0	0					0	21		22
23				6	0					0	14		23
24				18	0					0	0		24
25				19	0					0	0		25
26				18	0					10	7		26
27				18	0					16	6		27
28				18	0					22	0		28
29				16	0					26	0		29
30				21						28	0		30
31				26						28			31
MEAN				5	0					4	8		MEA
MAX.				26	8					28	29		MAX
MIN.				0	0					0	0		MIN
AC. FT.				317	16					258	508		AC.F

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1.5	29		8	1		0		10	1	0015	1099

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 10	119 50	NW20 20S 20E	4102a		6-12-69	1937-DATE					

Station located 1.0 mile southwest of Stratford. South Fork Kings River, composed of Kings River water, is a tributary to the Tulare Lake area. Records furnished by Kings River Water Association.

a Maximum discharge since 1950.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	C02602	CROSS CREEK BELOW LAKELAND CANAL #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

NO FLOW

E – ESTIMATED
NR – NO RECORD
* – DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# – E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO OH GAGE	REF. DATUM
36 12 42	119 34 05	NE 10 20S 22E				1921-DATE					

Station located downstream from Cross Creek Weir, 4 miles east of Guernsey. Tributary to Tulare Lake area. At times the flow is a combination of water from Kaweah River, Kings River, and Cottonwood Creek. Records are computed by the use of weir measurements taken at daily intervals and are furnished by the Corcoran Irrigation District.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	C03913	FRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	0				0	5	5	0	0	9	7	0	
2	0				0	0	5	0	0	6	7	0	
3	0				0	0	5	0	4	9	7	6	
4	0				0	0	5	0	4	6	7	6	
5	0				0	7	4	0	0	6	5	0	
6	0				0	7	4	0	4	0	5	0	
7	0				0	4	4	0	4	0	0	0	
8	0				0	4	4	5	4	4	0	5	
9	0				0	0	4	5	4	4	0	5	
10	0				4	0	6	5	0	4	0	5	1
11	0				4	0	6	5	0	3	4	5	1
12	4	N	N	N	4	4	8	5	0	7	5	0	1
13	4	O	O	O	5	4	8	5	5	7	5	0	1
14	0				5	4	8	0	5	5	6	0	1
15	0				5	9	8	0	5	5	6	0	1
16	0	F	F	F	5	9	8	0	5	5	7	0	1
17	0	L	L	L	5	8	8	5	5	5	8	0	1
18	0	O	O	O	10	8	9	5	5	5	10	0	1
19	0	W	W	W	10	8	0	5	7	4	10	5	1
20	0				10	11	0	5	5	4	7	5	2
21	0				10	8	0	10	7	8	7	5	2
22	0				7	8	0	10	8	12	9	5	2
23	0				7	4	0	8	10	9	9	5	2
24	0				7	4	0	8	10	9	9	5	2
25	0				7	4	4	8	8	9	9	5	2
26	0				7	4	4	4	7	11	9	0	2
27	0				7	4	0	4	11	11	7	0	2
28	0				6	6	0	4	13	9	11	0	2
29	0				6	8	0	0	10	9	11	0	2
30	0					8	0	0	9	7	7	0	3
31	0					7		0		7	7		3
MEAN	0.3				4.5	5.1	3.9	3.4	5.3	6.4	6.5	2.2	ME
MAX.	4				10	11	9	10	13	12	11	6	M.
MIN.	0				0	0	0	0	0	0	0	0	M
AC. FT.	16				260	311	232	210	315	395	399	133	AC

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
3.1	13	0.41	6	28	0800	0		10	1	0015	2271

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.O.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 05 00	119 04 50	SW20 21S 27E				MAY 50-DATE					

These flows are deliveries from Friant-Kern Canal into Porter Slough. Delivery is at the intersection of Porter Slough with the Friant-Kern Canal approximately 4 miles west of Porterville. Records furnished by U. S. Bureau of Reclamation.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	C03923	FRIANT-KERN CANAL DELIVERY TO TULE RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1					0								1
2					0								2
3					0								3
4					0								4
5					0								5
6					0								6
7					0								7
8					0								8
9					0								9
10					0								10
11					54								11
12	N	N	N	N	124	N	N	N	N	N	N	N	12
13	O	O	O	O	127	O	O	O	O	O	O	O	13
14					128								14
15					127								15
16	F	F	F	F	126	F	F	F	F	F	F	F	16
17	L	L	L	L	124	L	L	L	L	L	L	L	17
18	O	O	O	O	124	O	O	O	O	O	O	O	18
19	W	W	W	W	123	W	W	W	W	W	W	W	19
20					122								20
21					122								21
22					0								22
23					0								23
24					0								24
25					0								25
26					0								26
27					0								27
28					0								28
29					0								29
30													30
31													31
MEAN					45								MEAN
MAX.					128								MAX.
MIN.					0								MIN.
AC. FT.					2581								AC. FT.

E — ESTIMATED
NR — NO RECORD
★ — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND ★

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
3.6	129	1.66	2	14	0700	0		10	1	0015	2581

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUOE	1/4 SEC. T. & R. M.O.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 04 25	119 05 15	NW29 21S 27E				MAY 50-DATE					

These flows are deliveries from Friant-Kern Canal into Tule River. Point of delivery is located on the Tule River approximately 4 miles west of Porterville where Friant-Kern Canal crosses the Tule River. Records furnished by U. S. Bureau of Reclamation.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	C03169	TULE RIVER BELOW PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1			0	111.0	0							
2			0	107.0	0							
3			0	100.0*	0							
4			0	103.0	0							
5			0	70.4	0							
6			0	0	0							
7			0	0	0							
8			0	0	0							
9			0	0	0							
10			0	0	0							
11			0	0	0							
12	N	N	0	0	83.0	N	N	N	N	N	N	N
13	O	O	0	0	111.0	O	O	O	O	O	O	O
14			0	0	115.0							
15			0	0	115.0							
16	F	F	0	0	115.0	F	F	F	F	F	F	F
17	L	L	0	0	115.0	L	L	L	L	L	L	L
18	O	O	0	0	115.0	O	O	O	O	O	O	O
19	W	W	0	0	115.0	W	W	W	W	W	W	W
20			0	0	107.0							
21			0	0	103.0							
22			0	0	30.5							
23			11.4	0	0							
24			100.0	0	0							
25			148.0	0	0							
26			161.0	0	0							
27			174.0	0	0							
28			169.0*	0	0							
29			178.0*	0	0							
30			174.0*	0								
31			132.0*	0								
MEAN			40.2	15.9	38.8							
MAX.			178.0	111.0	115.0							
MIN.			0	0	0							
AC. FT.			2474	975	2230							

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
7.8											5679

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 04 40	119 06 22	NW30 21S 27E	8850	9.27	12-7-66	FEB 57-DATE		1957	1959	0.00	LOCAL
								1959		-3.48	LOCAL

Station located 330 feet upstream from Rockford Road Bridge, 5.1 miles west of Porterville. Flows regulated by Success Reservoir and spill from Friant-Kern Canal. Altitude of gage is approximately 400 feet (from U. S. Geological Survey topographic map). Flows include Central Valley Project releases from Friant-Kern Canal to Tule River. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	C03970	CAMPBELL-MORELAND DITCH ABOVE PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	14.8	14.5*	6.8	0	2.8	7.2	0	6.5*	6.8	7.5	8.4	6.2	1
2	14.8	14.8	0	0	4.4	6.8	0	6.2	7.5	7.2	7.5	6.5	2
3	15.2	14.8	0	0	5.2	6.8	0	6.2	7.5	6.8*	6.8	6.2	3
4	14.2*	14.8	0	0	6.0	6.8	0	6.5	7.2	6.8	7.2	6.2	4
5	12.5	14.8	0	2.1	6.8	7.2	0	6.5	6.2*	6.8	6.5	5.4	5
6	12.9	14.5	0	3.8*	7.2	6.8*	0	6.5	6.8	6.5	6.0	5.0	6
7	12.9	14.5	0	4.4	7.5*	6.8	0	6.5	6.2	6.5	7.2*	8.7	7
8	13.2	14.2	0	4.7	8.1	6.5	0	6.8*	6.2	6.2	8.1	9.0	8
9	14.5	15.2	0	4.7	8.7	6.2	3.9	6.5	6.0	6.2	7.5	9.7	9
10	14.8	15.5	0	5.0*	8.4	6.0	6.8*	6.5	6.0	6.0*	6.5	9.7	10
11	13.9*	15.2	0	5.4	8.4	6.0	8.7	6.2	6.0	6.0	6.8	8.1*	11
12	11.0*	14.5	0	5.4	7.8	6.0	5.0	6.5	6.2*	6.8	5.2	6.5	12
13	11.0	11.0	0	5.4	8.1	5.4*	8.7	6.5	6.8	6.8	5.0	1.1	13
14	11.3	10.7	0	5.0	8.1*	6.0	7.8	6.5	8.1	6.8	5.0*	0	14
15	11.6	9.7*	0	4.4	6.8	6.5	8.1	6.2	6.2	6.8	3.4	0	15
16	12.5	9.7	0	4.2	0.8	6.2	8.1	5.2*	6.2	6.8	5.4	1.8	16
17	13.5	10.4	0	4.4*	0	6.0	8.7	5.7	6.2	7.5*	8.4	8.4	17
18	14.5*	9.7	0	4.4	0	6.0	7.8*	6.2	6.5	8.4	7.5	8.1*	18
19	14.8	7.2	0	4.4	0	2.1	7.5	7.5	6.2	9.0	6.8	6.5	19
20	13.2	9.3	0	4.4	0	0	7.2	7.8	7.2*	9.0	7.5	6.2	20
21	14.5	9.3	0	4.4	0	0	6.5	8.1	6.8	9.3	7.5*	6.2	21
22	14.5	9.3*	0	4.4	2.3	0	6.8	7.5*	6.8	10.0	6.8	6.5	22
23	14.2	8.4	0	4.4	6.2*	0	6.8	6.8	6.5	10.0	7.2	7.8	23
24	14.5	9.0	0	4.4*	6.8	0	6.8*	6.5	6.8	9.0*	7.2	8.4	24
25	14.5	9.0	0	4.2	6.2	0	6.8	6.0	6.8	9.3	7.2	7.2*	25
26	14.5	9.0	0	4.4	5.7	0	6.8	6.5	6.2*	8.7	7.5	5.7	26
27	13.9*	9.7	0	4.4	6.0	0	6.8	7.2	7.2	8.1	7.2	6.5	27
28	14.2	9.7	0	4.4	6.5*	0	6.8	6.5	7.8	9.3	6.8*	8.1	28
29	14.5	9.3*	0	4.4	6.8	0	7.5	6.2	7.5	9.3	6.8	8.7	29
30	14.8	9.7	0	4.4		0	7.2	5.7*	7.5	8.1	7.5	9.0	30
31	13.5		0	3.2*		0		7.5		8.7*	7.5		31
MEAN	13.7	11.6	0.2	3.8	5.2	3.8	5.2	6.6	6.7	7.7	6.8	6.4	MEAN
MAX.	15.2	15.5	6.8	5.4	8.7	7.2	8.7	8.1	8.1	10.0	8.4	9.7	MAX.
MIN.	11.0	7.2	0	0	0	0	0	5.2	6.0	6.0	3.4	0	MIN.
AC. FT.	842	689	13	236	301	233	312	404	400	476	420	384	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
— E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
6.5											4710

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 02 48	118 56 54	NW 4 22S 28E				AUG 42-DATE			OCT 62	0.00	LOCAL
								OCT 62		-2.00	LOCAL

Station located 3.9 miles southeast of Porterville approximately 2,600 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	C03182	PORTER SLOUGH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	16.5	16.8	0										1
2	0	24.8*	0										2
3	0	25.1*	0										3
4	0	27.5	0										4
5	0	28.0	0										5
6	0	27.5	0										6
7	0	28.0	0										7
8	0	28.0	0										8
9	0	28.8	0										9
10	0	25.1	0										10
11	0	0.9	0										11
12	0	1.0	0.1	N	N	N	N	N	N	N	N	N	12
13	0	0	0.2	O	O	O	O	O	O	O	O	O	13
14	0	0	0										14
15	0	0	0										15
16	0	0	0	F	F	F	F	F	F	F	F	F	16
17	0	0	0	L	L	L	L	L	L	L	L	L	17
18	0	0	0	O	O	O	O	O	O	O	O	O	18
19	0	0	0	W	W	W	W	W	W	W	W	W	19
20	0	0	0										20
21	0	0	0										21
22	0	0	0.9										22
23	0	0	28.9										33
24	0	0	79.0										24
25	0	0	86.4										25
26	0	0	89.0										26
27	0	0	93.4*										27
28	0	0	91.2										28
29	0	0	92.6										29
30	0	0	33.4										30
21	2.4		1.1										21
MEAN	0.6	8.7	19.2										MEAN
MAX.	16.5	28.8	93.4										MAX.
MIN.	0	0	0										MIN.
AC. FT.	37	519	1183										AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
2.40											1739

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 03 29	118 59 08	SE31 21S 28E				JAN 42-DATE		1957		0.00	LOCAL

Station located at "B" Lane Bridge, immediately east of Porterville. This is regulated diversion from Tule River. Altitude of gage is approximately 465 feet (from U. S. Geological Survey topographic map). Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	C03984	PORTER SLOUGH DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	6.3	0	0			0	0.4	2.7*	0	0	5.1		1
2	0	2.3	0			0	1.6	3.5	0	0	5.0		2
3	0	7.1*	0			0	0	4.0	0	0	4.9		3
4	0	7.8	0			0	0	5.5	0	0	4.1		4
5	0	8.0	0			0	0	5.5	0	0	4.1		5
6	0	7.9	0			0	0	4.9	0	0	3.9		6
7	0	7.8	0			0	0	4.5	0	0	3.3*		7
8	0	7.7*	0			0	0	4.4*	0	0	3.3		8
9	0	7.5	0			0	0	4.2	0	0	3.2		9
10	0	7.2	0			0	0	3.8	0	0	3.1		10
11	0	1.7	0			0	0	3.6	0	0	2.7		11
12	0	0	0	N	N	0	0	5.0	0.7	0	1.4	N	12
13	0	0	0	O	O	0	0	4.4	4.3	0	0.3	O	13
14	0	0	0			3.1	0	4.8	3.8	0	0.2*		14
15	0	0	0			4.3*	0	5.1	3.5	0	0.2		15
16	0	0	0	F	F	3.7	0	3.3*	4.1	0	0.1	F	16
17	0	0	0	L	L	3.0	0	0.1	3.9	0	0.2	L	17
18	0	0	0	O	O	3.0	0	0	3.9	0	0.1	O	18
19	0	0	0	W	W	4.4	0	0	4.1	0	0	W	19
20	0	0	0			6.0	0	1.0	4.0	0	0		20
21	0	0	0			5.7	0	0	4.3	0	0		21
22	0	0	0			5.2	0	0	4.1	0	0		22
23	0	0	0			6.0	0	0	4.5	0	0		23
24	0	0	0.1a			5.8	0	0	6.2	1.2	0		24
25	0	0	1.6a			5.7	0	0	6.3	3.7*	0		25
26	0	0	1.1a			5.3	0	0	4.7*	3.6	0		26
27	0	0	1.2a			4.2*	0	0	4.0	4.2	0		27
28	0	0	1.0a			1.4	0	0	5.0	4.9	0		28
29	0	0	1.1a			0	0	0	4.2	5.4	0		29
30	0	0	0.8a			0	0	0	1.4	4.8	0		30
31	0		0			0		0		4.3*	0		31
MEAN	0.2	2.2	0.2			2.2	0.1	2.3	2.6	1.0	1.5		MEAN
MAX.	6.3	8.0	1.6			6.0	1.6	5.5	6.3	5.4	5.1		MAX.
MIN.	0	0	0			0	0	0	0	0	0		MIN.
AC. FT.	12	129	14			132	4	139	153	64	90		AC. FT.

E – ESTIMATED
NR – NO RECORD
* – DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# – E AND *
a – HEADGATE LEAKAGE

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
1.0											737

NOTE: All flow from March 14 delivered through Pioneer Ditch.

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 04 06	119 01 06	SE26 21S 27E				JAN 43-DATE		1943		0.00	LOCAL

Station located in Porterville 0.5 mile west of Porterville Post Office, approximately 150 feet downstream from head. This is regulated diversion from Tule River via Porter Slough. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	C03965	VANDALIA DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1					0	5.6							1
2					0	4.7*							2
3					0	3.5							3
4					0	3.5							4
5					0	3.9							5
6					0	4.4*							6
7					0	4.1							7
8					0	4.1							8
9					0	4.0							9
10					0	3.7							10
11					0	3.6							11
12	N	N	N	N	0	3.2	N	N	N	N	N	N	12
13	O	O	O	O	0	2.7*	O	O	O	O	O	O	13
14					0	2.9							14
15					0	3.2							15
16	F	F	F	F	0	3.2	F	F	F	F	F	F	16
17	L	L	L	L	0	3.2	L	L	L	L	L	L	17
18	O	O	O	O	0	3.1	O	O	O	O	O	O	18
19	W	W	W	W	0	1.2	W	W	W	W	W	W	19
20					0	0							20
21					0	0							21
22					0	0							22
23					0	0							23
24					0	0							24
25					0	0							25
26					0	0							26
27					0	0							27
28					0	0							28
29					2.8	0							29
30						0							30
31						0							31
MEAN					0.1	2.2							MEA
MAX.					2.8	5.6							MA
MIN.					0	0							MI
AC. FT.					6	134							AC.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
0.2											140

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 03 00	118 58 18	NE 5 22S 28E				1948-DATE		1948		0.00	LOCAL

Station located 2.8 miles southeast of Porterville approximately 1,000 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	C03960	POPLAR DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	0.3a	0	24.2	2.0	0.4Ea	52.8*	0	33.0	0.1	1
2			0	0.5a	0	42.9*	0.2Ea	0.4Ea	54.5	0	32.1	0.1	2
3			0	0.5a	0	45.1	0.2Ea	0.4Ea	54.0	0	30.6	0.1	3
4			0	0.4a	0	45.1	0.2Ea	0	43.9	0	31.0	0.1	4
5			0	0.3a	0	45.1	0.2Ea	0	16.5*	0	12.7	0	5
6			0	0.1a	0	44.2*	0.2Ea	0	0.8	0	0.2Ea	0	6
7			0	0.1a	0	43.9	0.2Ea	0	12.2	0	3.9	0	7
8			0	0.2a	0	44.2	0.2Ea	0	14.2	0	72.1*	0	8
9			0	0.2a	0	42.9	0.4Ea	0	1.1	0	112.6*	0	9
10			0	0.1a	0	39.1	0.5Ea	0	0	0	131.6*	0	10
11			0	0	0	34.8	0.5Ea	0	0	0	120.8	0	11
12	N	N	0	0	0	18.5	0.5Ea	0	0	37.4*	24.3	0	12
13	O	O	0	0	0	0.3*a	0.5Ea	0	0	47.6	0.3Ea	0	13
14			0	0	0	0.3a	0.5Ea	0	37.2	55.0	0.3Ea	0	14
15			0	0	0	0.1a	0.5Ea	0	58.9*	62.2	0.2Ea	0	15
16	F	F	0	0	0	0.1a	0.4Ea	0	58.9	62.7	0	0	16
17	L	L	0	0	0	0.1a	0.3Ea	0	58.4	42.4*	0	0	17
18	O	O	0	0	0	0.1a	0.3Ea	0	59.4	23.8*	11.6	0	18
19	W	W	0	0	0	0.2a	0.3Ea	0	29.4	21.3	12.2	0	19
20			0	0	0	0.2*a	0.3Ea	0	0	22.2	11.8	0	20
21			0	0	0	0.1a	0.3Ea	0	0	22.6	38.6*	0	31
22			0	0	0	0.1a	0.3Ea	0	0	10.0	109.0	0	22
23			0	0	0.7a	0.2a	0.4Ea	0	0	0	123.8	0	23
24			0	0	1.3a	4.6	0.4Ea	0	0	0	128.0	0	24
25			0	0	1.4a	6.8	0.4Ea	0	0	0	41.9	0	25
26			3.8	0	1.4a	6.3	0.4Ea	0	0	4.5*	23.8	0	26
27			7.6	0	1.3a	6.3*	0.4Ea	0	0	18.5*	23.5	0	27
28			0.5a	0	0.2Ea	5.8	0.4Ea	0	0	29.4	17.8*	0	28
29			0.4a	0	0.2Ea	6.0	0.4Ea	0	0	32.6	14.4	0	29
30			0.3a	0		5.3	0.4Ea	0	0	33.0	15.2	0	30
31			0.1a	0		6.3		37.8		33.4*	8.7		31
MEAN			0.4	0.1	0.2	16.7	0.4	1.3	18.4	18.0	38.3	0	MEAN
MAX.			7.6	0.5	1.4	45.1	2.0	37.8	59.4	62.7	131.6	0.1	MAX.
MIN.			0	0	0	0.1	0.2	0	0	0	0	0	MIN.
AC. FT.			25	5	13	1030	24E	77	1095	1108	2352	1	AC. FT.

E – ESTIMATED
NR – NO RECORD
* – DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
‡ – E AND *
a – HEADGATE LEAKAGE

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
7.9											5730

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 03 18	119 00 54	SW36 21S 27E				APR 42-DATE		1942		0.00	LOCAL

Station located 1.0 mile south of Porterville approximately 4,750 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	C03925	HUBBS-MINER DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DA
1	0.4		0		0	4.0	5.3		1.2	2.0	0	3.2	
2	0		0		0	3.5	5.2		5.7	0.9	0	2.0	
3	0		0		0	3.9	5.0*		7.4	1.4*	0.2	0.8	
4	0 a		0		0	3.7	4.4		8.5	3.3	0.7	0	
5	0.3a		0		0	3.6	4.9		7.8*	4.2*	5.0	0	
6	0.1a		0		0	2.9*	4.8		3.3	5.1	5.6	0	
7	0.7a		0		0	3.1	4.8		4.9	5.0	5.2*	0	
8	1.0a		0		0	4.4	2.6		4.7	5.2	5.9	0	
9	0.2a		0		0	4.8	0		5.8	5.7	6.6	0	
10	0.2a		0		0	5.5	0		4.7	4.9	4.0	0	
11	0.1*a		0		0	6.0	0		0	5.0	0.8	0	
12	0	N	0	N	0	7.1	0	N	0	5.5	0.9	0	
13	0	O	0	O	0	7.3*	0	O	0	6.7	0	0	
14	0		0		0	6.7	0		0	7.8	0	0	
15	0		0		0	6.7	0		2.1	7.5	0	0	
16	0.1	F	0	F	0	8.0	0	F	4.9*	8.4	0	0	
17	0.6a	L	0	L	0	8.7	0	L	6.1	8.2*	0	0	
18	0.3a	O	0	O	0	7.0	3.1	O	7.3	6.6	1.1	0	
19	0	W	0	W	0	6.6	7.7*	W	8.0	7.5	6.7	0	
20	0.2*a		0		0	7.1*	8.2		8.4*	8.3	8.2	0	
21	0.1a		0		0	6.9	7.5		8.2	7.1	8.7*	0	
22	0		0		0	5.8	7.8		6.8	6.1	8.2	0	
23	0		0		0	5.4	7.8		6.7	5.2	7.9	0	
24	0.2a		0		1.1	3.1	7.5*		5.1	5.5*	7.9	0	
25	0.1a		0		3.0	0	7.7		4.6	7.9	1.0	0	
26	0		0		4.7	0	7.3		4.5*	9.0	0	0	
27	0		0.4		4.1	0	6.9		4.0	8.5	0	0	
28	0		0		3.5*	0	3.0		3.4	8.7	1.3	0	
29	0		0		3.7	0.4	0		3.3	9.5	2.2	0	
30	0		0			0.2	0		2.7	4.1	5.5*	0	
31	0		0			2.7				0	5.2		
MEAN	0.1		0		0.7	4.4	3.7		4.7	5.8	3.2	0.2	M
MAX.	1.0		0.4		4.7	8.7	8.2		8.5	9.5	8.7	3.2	M
MIN.	0		0		0	0	0		0	0	0	0	M
AC. FT.	9		1		40	268	221		278	359	196	12	AC

E – ESTIMATED
NR – NO RECORD
* – DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# – E AND *
a – HEADGATE LEAKAGE

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
1.9											1384

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 03 27	119 02 02	NW35 21S 27E				DEC 42-DATE		1942		0.00	LOCAL

Station located 1.1 miles southwest of Porterville, approximately 3,400 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	C03948	WOODS-CENTRAL DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	2.3a						0			1
2			0	2.4a						0			2
3			0	2.7a						0			3
4			0	1.0a						0			4
5			0	0						0			5
6			0	0						0			6
7			0	0						0			7
8			0	0						0			8
9			0	0						0			9
10			0	0						0			10
11			0	35.0						0			11
12	N	N	0	64.1*	N	N	N	N	N	0	N	N	12
13	O	O	0	63.8*	O	O	O	O	O	0	O	O	13
14			0	44.5						0			14
15			0	0.6						0			15
16	F	F	0	0	F	F	F	F	F	0	F	F	16
17	L	L	0	0	L	L	L	L	L	0	L	L	17
18	O	O	0	0	O	O	O	O	O	0	O	O	18
19	W	W	0	0	W	W	W	W	W	0	W	W	19
20			0	0						0			20
21			0	0						0			21
22			0	0						0			22
23			0	0						0			23
24			12.4	0						65.4			24
25			29.0	0						177.0*			25
26			23.5	0						168.0			26
27			19.7*	0						171.0*			27
28			34.8	0						156.0			28
29			33.0	0						158.0			29
30			13.1	0						53.8			30
31			2.5a	0									31
MEAN			5.4	7.0						30.6			MEAN
MAX.			34.8	64.1						177.0			MAX.
MIN.			0	0						0			MIN.
AC. FT.			333	429						1883			AC. FT.

E – ESTIMATED
NR – NO RECORD
* – DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
– E AND *
a – HEADGATE LEAKAGE

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
3.6	177.0		7	25		0		10	1		2645

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 04 18	119 05 48	SE30 21S 27E				DEC 42-DATE		1942		0.00	LOCAL

Station located 4.5 miles west of Porterville, approximately 100 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources. This station is sometimes affected by backwater due to CVP water being delivered from the Friant-Kern Canal to Woods-Central Ditch approximately 100 feet downstream from station.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	C05150	KERN RIVER NEAR BAKERSFIELD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	265	191	236	296	308	529	411	496	612	831	624	172
2	258	195	242	317	303	525	483	446	609	848	602	168
3	251	193	240	325	307	508	528	430	628	837	578	174
4	237	196	243	328	315	502	592	429	669	841	551	179
5	235	210	242	324	311	539	609	426	698	843	548	201
6	221	217	242	313	308	598	631	431	676	808	571	226
7	214	219	246	269	287	677	638	450	702	792	602	228
8	207	222	241	324	254	734	598	443	551	766	609	240
9	204	216	212	333	433	723	594	435	617	769	611	252
10	203	216	191	314	341	686	606	414	580	777	626	249
11	193	214	194	305	333	616	588	396	584	796	634	229
12	191	242	202	308	324	552	534	412	625	808	651	198
13	199	270	205	302	319	518	480	438	663	813	648	189
14	195	279	203	313	328	511	433	528	668	835	586	184
15	185	281	207	318	353	516	427	620	649	838	510	185
16	183	258	218	319	374	514	439	646	657	834	500	182
17	174	231	224	327	371	507	475	636	685	848	496	178
18	177	225	236	331	383	490	494	630	754	860	490	180
19	179	222	246	326	404	514	486	616	802	870	463	183
20	174	229	253	329	422	555	473	598	887	887	441	181
21	173	225	243	336	424	538	420	581	926	842	451	181
22	177	223	262	335	429	471	408	567	937	808	483	184
23	172	218	345	333	451	433	431	558	959	724	504	186
24	173	221	422	329	489	427	469	556	964	679	506	185
25	170	215	473	333	497	425	464	548	976	715	524	185
26	186	161	489	327	511	429	445	539	977	751	483	189
27	190	74	496	304	516	422	458	535	960	709	400	191
28	187	148	443	301	518	428	459	598	942	638	346	186
29	189	239	369	309	526	436	447	639	891	611	325	185
30	193	223	308	307		449	484	661	822	604	310	178
31	188		283	310		427		638		616	248	
MEAN	198	216	279	318	384	523	500	527	756	781	514	194
MAX.	265	281	496	336	526	734	638	661	977	887	648	252
MIN.	172	74	191	269	254	422	408	396	551	604	248	168
AC. FT.	12184	12839	17169	19527	22094	32130	29760	32410	44965	47996	31579	11560

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
\# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
433	977		7	26		74		11	27		314210

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M.D B.&M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
35 25 9	118 56 8	SW 2 29S 28E	36000	14.2	11-19-50	1893-DATE					

Also known as "Kern River at First Point". Station located 5.8 miles northeast of Bakersfield. Tabulated discharge is the regulated flow and is computed from noon to noon beginning at noon of day shown. Records furnished by Kern County Canal and Water Company. Drainage area is 2,407 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1972	C07120	BUENA VISTA CREEK NEAR TAFT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

Insufficient data to publish

E – ESTIMATED
NR – NO RECORD
* – DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
– E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT.	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO.	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT DAILY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
35 12 21	119 24 35	NW28 31S 24E		2.9	8-14-65		NOV 64-DATE	1964		0.00	LOCAL

Station located at State Highway 119 bridge immediately southwest of Valley Acres, 5.7 miles northeast of Taft. Tributary to Buena Vista Lake. Recorder installed 11-10-64. Altitude of gage is approximately 425 feet (from topographic map).

DIVERSIONS

Diversion data formerly collected by the Department of Water Resources for the Stanislaus, Tuolumne, Merced, and San Joaquin Rivers and Dry Creek near Modesto have been discontinued. The last publication of such diversion data was in Bulletin 130-70.

The diversion data shown in Tables B-4 through B-8 have been furnished by the U. S. Bureau of Reclamation, City and County of San Francisco, local agencies including irrigation and water districts, and the Department's Division of Operations. Figures shown are monthly and annual acre-feet amounts of water diverted from the San Joaquin and Tule Rivers, deliveries from project canals, deliveries to irrigation districts, and imports to and exports from the San Joaquin Valley.

The diversion data are published as received without rounding according to criteria used by the Department.

TABLE B-4

DIVERSIONS - SAN JOAQUIN RIVER
(Fremont Ford Bridge to Gravelly Ford)
October 1971 through September 1972

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5														
--GAGING STATION - SAN JOAQUIN RIVER NEAR STEVINSON--	136.7														
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS--	186.0														
San Luis Canal Company	186.6 L	Gravity	8571	2630	0	0	5925	16889	13331	21277	26452	28774	26557	18655	169061
--FIREBAUGH BRIDGE--	198.4														
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA--															
--MENDOTA DAM--	208.63														
Central California Irrigation District	208.8 L	Gravity	22217	9271	0	2176	23001	60054	46992	61447	74913	86985	78577	39704	a 505337
--FRESNO SLOUGH-- b	209.0 L														
--DELTA-MENDOTA CANAL-- b	(0.2L)														
Firebaugh Canal Company b	(0.4L)		2507	331	0	965	5726	3983	7727	5059	4930	5498	6371	4147	c 47244
Producers Cotton Oil d b Company	(3.4L)		0	0	0	0	393	248	20	151	540	403	218	20	1993
State of California b Mendota Waterfowl Management	(6.45-8.20)		4082	2636	651	0	274	454	1515	1946	2184	2194	3070	4969	23975
Fresno Slough Water b District	(9.20-10.50)		0	0	0	0	768	365	147	704	621	1014	1107	180	4906
--JAMES BYPASS--	(11.80R)														
Mason A. Loundy e f (Traction Ranch)	(0.75)		6	0	0	0	748	234	363	748	869	990	1067	436	5461
Reclamation District 1606 e	(1.50)		0	0	0	0	61	155	8	0	38	71	60	0	393
James Irrigation District e	(4.4)		305	0	0	498	7706	1857	3011	4362	7803	7690	6811	2354	42397
Tranquillity Irrigation b District	(12.00-13.75)		240	0	0	99	6373	2420	1642	3552	6008	7186	5970	1382	34872
Melvin D. Hughes b	(12.20)		0	0	0	0	0	24	0	0	16	28	28	0	96
--LONE WILLOW SLOUGH--	219.8 R														
Columbia Canal Company	219.8 R		2991	853	0	1131	2872	5407	5242	6577	8924	9469	9158	6995	59619
State Center Land Company		g 1-6	200	131	91	0	0	0	0	0	0	0	0	298	720
M. Beck		h 1-8	26	28	0	0	0	0	0	0	0	0	0	0	54
Tulle Gun Club		i 1-8	4	0	4	0	0	0	0	0	0	0	0	0	8
Westlands Water District			0	0	0	668	3955	4209	994	2065	3644	4241	2573	734	j 23083
Grasslands Water District			18428	5710	0	0	0	0	0	0	0	0	0	11740	35878
J. W. Wilson			0	0	0	0	167	48	50	60	67	119	54	0	565
Laguna Water District			0	0	0	0	0	0	0	0	50	200	101	49	400
Pacheco Water District			0	0	0	0	528	0	0	799	2200	2499	1801	901	8728
Mercy Springs Water District			0	0	0	0	0	0	0	0	0	863	565	0	1428
--GAGING STATION - SAN JOAQUIN RIVER AT WHITEHOUSE--	219.83														
--GRAVELLY FORD CANAL--	232.8 R														
FREMONT FORD BRIDGE TO GRAVELLY FORD															
Total			59577	21590	746	5537	58497	96347	81042	108747	139259	158224	144088	92564	966218
Average cubic feet per second			1922	720	24	179	2017	3108	2701	3508	4642	5104	4648	3085	2640
Monthly use in percent of seasonal			6.2	2.2	0.1	0.6	6.0	10.0	8.4	11.2	14.4	16.4	14.9	9.6	

Records for this reach furnished by the U. S. Bureau of Reclamation and the Contracting Entities, and include operational spill.
Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

a Total does not include Central California Irrigation District deliveries from the Delta-Mendota Canal.
b Plant is located on Fresno Slough which diverts from the San Joaquin River at mile 209.0L. Distance from the San Joaquin River and bank of slough on which diversion is located are shown in parentheses.
c Total does not include Firebaugh Canal Company deliveries from the Delta-Mendota Canal.
d Formerly listed as M. L. Dudley.
e Plant is located on James Bypass which diverts from Fresno Slough at mile 11.80R. Distance from Fresno Slough and bank location of diversion are shown in parentheses.
f Formerly named Traction Water District.
g One 6-inch pump located on arm of slough at SW corner S. 12, T. 14S, R. 15E.
h One 8-inch pump located on arm of slough 1400 feet S. of NE corner, S. 24, T. 14S, R15E.
i One 8-inch pump located on arm of slough adjacent to M. Beck.
j Total does not include deliveries under separate agreement by San Luis WD.

TABLE B-4 (Cont.)

DIVERSIONS - TULE RIVER
October 1971 through September 1972

WATER USER	MILE AND BANK BELOW SUCCESS DAM	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSIO OCT.-SEP ACRE-FEE
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--SUCCESS DAM--	0.0														
--GAGING STATION - TULE RIVER BELOW SUCCESS DAM--	0.35														
Campbell Moreland Ditch	2.4 L	Gravity	842	689	13	236	301	233	312	404	400	476	420	384	4710
--PORTER SLOUGH--	2.4 R														
--GAGING STATION - PORTER SLOUGH AT PORTERVILLE (B LANE BRIDGE)--	(2.4)														
--PIONEER SPILL--	(3.7R)														
Porter Slough Ditch	(4.5R)	Gravity	12	129	14	0	0	132	4	139	153	64	90	0	737
--GAGING STATION - PORTER SLOUGH NEAR PORTERVILLE (NEWCOMB ROAD)--	(6.1)														
Vandalia Ditch	3.1 L	Gravity	0	0	0	0	6	134	0	0	0	0	0	0	140
--SANTA FE RAILROAD BRIDGE--	5.1														
Poplar Ditch	5.8 L	Gravity	0	0	25	5	13	1030	24E	77	1095	1108	2352	1	5730
--MAIN STREET BRIDGE--	5.9														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	6.0														
Hubbs-Miner Ditch	6.4 R	Gravity	9	0	1	0	40	268	221	0	278	359	196	12	1384
--STATE HIGHWAY 65 BRIDGE--	6.6														
--OLIVE AVENUE BRIDGE--	9.9														
--FRIANT-KERN CANAL CROSSING--	10.5														
Woods-Central Ditch	11.0 L	Gravity	0	0	333	429	0	0	0	0	0	1883	0	0	2645
--GAGING STATION - TULE RIVER BELOW PORTERVILLE--	11.8														
--OTTLE BRIDGE--	14.4														
TULE RIVER															
Total			863	818	386	670	360	1797	561	620	1926	3890	3058	397	15346
Average cubic feet per second			14	14	6	11	6	29	9	10	32	63	50	7	21
Monthly use in percent of seasonal			5.6	5.3	2.5	4.4	2.4	11.7	3.7	4.0	12.6	25.3	19.9	2.6	

Records furnished by the Tule River Association. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

a Figure in parentheses indicates distance along Porter Slough from Tule River.

TABLE B-5

DIVERSIONS AND ACREAGE IRRIGATED - EAST SIDE CANALS AND IRRIGATION DISTRICTS
October 1971 through September 1972

WATER USER	DIVERSION													ACREAGE IRRIGATED	
	OCT	NOV.	DEC.	JAN	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL	GENERAL	RICE
Friant-Kern Canal				San Joaquin River[a]											
Total acre-feet diverted	48388	23526	18990	6030	54310	105766	50419	83551	128295	149447	91977	50962	811661	Not Available	
Average cubic feet per second	787	395	309	98	944	1720	847	1359	2156	2430	1496	856	1118		
Monthly use in percent of seasonal	6.0	2.9	2.3	0.8	6.7	13.0	6.2	10.3	15.8	18.4	11.3	6.3			
Madera Canal															
Total acre-feet diverted	930	0	0	0	5659	39067	143	1944	39539	48603	17056	0	152941	Not Available	
Average cubic feet per second	15	0	0	0	98	635	2	32	664	790	277	0	211		
Monthly use in percent of seasonal	0.6	0	0	0	3.7	25.5	0.1	1.3	25.9	31.8	11.1	0			
Merced Irrigation District				Merced River											
Main Canal	6272	2598	1142	2027	1952	65606	55147	74242	97213	108935	93419	73082	b 581635	c 111714	6406
Northside Canal	863	60	32	44	34	2376	2965	3418	4114	4721	3783	3751	26161		
Total acre-feet diverted	7135	2658	1174	2071	1986	67982	58112	77660	101327	113656	97202	76833	607796		
Average cubic feet per second	116	45	19	34	35	1106	977	1263	1703	1848	1581	1291	837		
Monthly use in percent of seasonal	1.2	0.4	0.2	0.3	0.3	11.2	9.6	12.8	16.7	18.7	16.0	12.6			
Turlock Irrigation District				Tuolumne River											
Total acre-feet diverted	42970	4450	19550	1730	316	82980	61780	65700	94000	76090	80910	583	d 531059	e 172090	0
Average cubic feet per second	699	75	318	28	5	1350	1038	1069	1580	1237	1316	10	732		
Monthly use in percent of seasonal	8.1	0.9	3.7	0.3	0.1	15.6	11.6	12.4	17.7	14.3	15.2	0.1			
Modesto Irrigation District															
Total acre-feet diverted	18785	9610	5260	0	19	38067	28070	21615	32186	41931	31395	9051	f 235989	g 72937	539
Average cubic feet per second	306	162	86	0	0	619	472	352	541	682	511	152	325		
Monthly use in percent of seasonal	8.0	4.1	2.2	0	0	16.1	11.9	9.2	13.6	17.8	13.3	3.8			
Waterford Irrigation District															
Total acre-feet diverted	2265	0	0	0	0	5163	4760	5675	5704	6139	5075	3859	h 38640	i 7348	0
Average cubic feet per second	37	0	0	0	0	84	80	92	96	100	83	65	53		
Monthly use in percent of seasonal	5.9	0	0	0	0	13.4	12.3	14.7	14.7	15.9	13.1	10.0			
Oakdale Irrigation District				Stanislaus River											
Northside Canal	7505	0	0	0	54	14365	16517	16986	16892	18116	17708	16206	124349	j 23911	3900
Southside Canal	11612	0	0	0	0	22290	21681	24849	24808	25575	24720	22980	178515	k 34921	602
Total acre-feet diverted	19117	0	0	0	54	36655	38198	41835	41700	43691	42428	39186	302864	m 58832	
Average cubic feet per second	311	0	0	0	1	596	642	680	701	711	690	659	417		
Monthly use in percent of seasonal	6.3	0	0	0	0	12.1	12.6	13.8	13.8	14.4	14.0	13.0			
South San Joaquin Irrigation District															
Total acre-feet diverted	9945	0	0	0	2511	53669	33834	31997	40663	51634	42740	15075	282068	n 63988	310
Average cubic feet per second	162	0	0	0	44	873	569	520	683	840	695	253	389		
Monthly use in percent of seasonal	3.5	0	0	0	0.9	19.0	12.0	11.4	14.4	18.3	15.2	5.3			

a Data for Madera and Friant-Kern Canals furnished by U. S. Bureau of Reclamation. All other data furnished by individual irrigation districts and published as received.
b An additional 108,489 acre-feet of water was pumped from wells.
c Of this acreage, 4,180 were double cropped. Does not include an undetermined amount of riparian water users acreage.
d An additional 183,920 acre-feet of water was pumped from wells.
e Of this acreage, 29,197 were double cropped.
f An additional 77,960 acre-feet of water was pumped from wells.
g Of this acreage, 9,754 were double cropped.
h An additional 7,883 acre-feet of water was pumped from wells.
i Of this acreage, 441 were double cropped.
j Of this acreage, 856 were double cropped.
k Of this acreage, 613 were double cropped.
m This acreage also received 49,772 acre-feet of water from wells and controlled drainage.
n This acreage also received an undetermined amount of well water, and an undetermined amount of controlled drainage water from Oakdale Irrigation District. Of this acreage, 3,590 were double cropped.

TABLE B-6

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1971 through September 1972

WATER USER	MILE POST FROM CANAL HEAD FROM	TO	MONTHLY DELIVERIES IN ACRE-FEET OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
							Delta-Mendota Canal								
Plain View Water District	4.22	20.96	851	82	21	4	428	2293	2115	3002	3528	4441	3521	2229	2251
Westside Irrigation District	14.79		0	0	0	0	0	306	204	1197	695	1554	965	79	500
Hospital Water District	18.05	30.96	680	158	46	4	924	4342	4234	4575	4338	5731	4093	2460	3158
Santa-Carbona Irrigation District	20.42		0	0	0	0	1085	763	2035	2793	3892	6713	2335	48	1966
Gordon H. Ball, Incorporated	22.50		2	0	0	0	0	0	0	0	0	0	0	0	
Kern Canon Water District	31.31	35.18	87	44	19	0	436	2111	1550	979	1597	1594	1045	739	1020
West Stanislaus Irrigation District	31.31	38.14	0	8	115	23	2	2332	8261	6210	6965	12411	5844	0	4217
Del Puerto Water District	35.73	42.51	315	168	180	13	830	3463	2250	2033	2492	2620	1913	1100	1737
Salado Water District	42.10	46.85	15	0	0	0	16	1731	2159	1850	1682	2289	1435	670	1184
Patterson Water District	42.51		42	90	212	0	302	591	340	364	661	1526	1501	767	639
Sunflower Water District	44.22	52.02	152	8	7	0	498	2718	3109	2135	2963	3551	2630	1182	1895
Orestimba Water District	46.83	51.41	114	46	275	1	306	2768	3977	3241	2442	3964	2882	478	2049
Foothill Water District	51.65	57.46	351	22	1	1	74	1832	1314	1433	1867	2086	1395	1544	1192
Davis Water District	53.64	56.82	64	1	0	1	174	588	688	723	709	982	587	362	487
Mustang Water District	56.80	62.67	100	5	58	0	31	1373	1692	1762	1943	2256	2199	897	1231
Central California Irrigation District	58.26	76.06	1362	14	32	0	0	9923	8870	13351	12869	13359	10090	4768	7463
Quinto Water District	64.32	67.55	197	0	0	0	103	1094	1024	945	1124	1680	1420	824	841
Centinella Water District	66.20		171	0	0	0	0	336	354	355	340	388	173	243	236
Romero Water District	66.70	68.03	0	2	0	0	0	399	541	668	724	914	803	430	448
San Luis Water District, Municipal and Industrial	69.21		42	16	12	1	3	10	14	20	21	22	22	16	19
San Luis Water District	69.21	90.53	1408	975	1891	5528	7440	10587	6845	9779	10249	11499	8246	3792	a 7823
William Affonso			0	0	0	0	0	48	0	0	42	21	0	0	11
Grassland Water District	69.98		10638	2739	0	0	0	0	0	0	0	0	0	5144	1852
Sam Hamburg Farms	90.53		4	2	2	1	2	3	3	2	5	5	4	4	3
Panoche Water District	93.25	96.70	2361	3930	2837	2690	7134	9022	6179	8193	10425	12556	8691	3607	7762
Eagle Field Water District	93.27	94.57	217	0	0	108	660	479	351	674	659	1153	861	334	549
Oro Loma Water District	95.50	96.62	102	0	0	12	0	11	889	1278	1159	1375	1178	80	608
West Side Golf Club, Incorporated	95.95		14	7	6	6	8	10	15	18	22	23	22	13	16
Mercy Springs Water District	97.79	99.81	139	1	1	0	1	179	764	2061	1933	3242	2819	689	1182
Panoche Water District, Municipal and Industrial	100.84		1	1	1	1	1	1	1	1	1	1	1	1	1
Widren Water District	102.03		0	0	0	64	136	0	165	239	162	244	257	55	132
Broadview Water District	102.95		293	1083	379	748	2331	3465	956	2421	3547	2695	1032	901	1985
Firebaugh Canal Company	109.45		0	0	0	1928	0	0	499	7631	7766	8100	7761	185	3387
Total			19722	9402	6095	11134	22925	62778	61398	79933	86822	108995	75726	33641	57857
Net Deliveries DMC to Mendota Pool	115.62		64583	24326	0	12421	68875	104050	87057	119077	153529	174790	158722	101960	1069390
Net Deliveries DMC to O'Neill Forebay	69.30		93680	103832	113807	37465	90823	75205	67650	54869	b-36947	15604	43097	100960	72883
							Madera Canal								
Madera Irrigation District	6.10	32.2	125	0	0	0	2743	22749	296	873	25672	30369	8761	0	91588
Adobe Ranch	20.6		67	59	61	62	10	0	0	0	40	61	62	59	481
Chowchilla Water District	35.9		1418	0	0	0	1267	16364	0	0	14128	18560	7994	0	59731
Total			1610	59	61	62	4020	39113	296	873	39840	48990	16817	59	151800
							Millerton Lake								
Fresno County Water District #18			8	3	3	3	3	8	10	15	20	23	19	11	126
County of Madera			1	2	1	1	2	2	2	3	2	4	3	1	24
Total			9	5	4	4	5	10	12	18	22	27	22	12	150

TABLE B-6 (Cont.)

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1971 through September 1972

WATER USER	MILE POST FROM CANAL HEAD FROM	TO	MONTHLY DELIVERIES IN ACRE-FEET OCT.	NOV.	DEC.	JAN	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG	SEPT	TOTAL
								Friant-Kern Canal							
Garfield Water District	7.53		196	39	169	35	99	346	417	420	541	514	490	260	3526
Dog Creek Water District	14.8		0	0	0	0	0	0	0	0	0	0	0	0	0
International Water District	14.9		122	0	0	0	0	25	39	114	214	238	246	178	1176
Academy Water District	17.63		0	0	0	0	0	0	0	0	0	0	0	0	0
Round Mountain Ranch	20.22		5	0	0	0	0	15	27	3	9	10	0	3	72
Consolidatsd Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Last Chance Water Ditch Company	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Laguna Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Corcoran Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Stratford Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Tulare Lake Basin Water Storage District	28.50 & 95.64		0	0	0	0	0	0	0	0	0	0	0	0	0
Alta Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
City of Fresno	25.51		0	0	0	0	0	0	0	0	0	13547	219	142	13908
Fresno Irrigation District	25.51 & 28.50		56	0	1557	432	0	15118	1203	21291	9418	50	0	0	49125
Murphy Slough Association	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Cohn Central Consolidated R.D. #761	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Empire Westside Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Kings River Water Association	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Kings County Water District	28.50	71.29	0	0	0	0	0	0	0	0	0	0	0	0	0
Hills Valley Irrigation District	41.12		0	0	0	0	0	0	0	0	0	0	0	0	0
Orange Cove Irrigation District	35.87	53.31	3065	912	38	0	0	2797	3084	4391	5699	7236	6688	4707	38617
City of Orange Cove	43.44		31	18	12	7	12	29	36	46	53	59	55	41	399
Stone Corral Irrigation District	56.90	64.40	381	159	16	0	30	817	833	633	1093	1692	1541	932	8127
Ivanhoe Irrigation District	65.04	68.13	1240	315	0	0	101	218	421	371	1341	1619	1880	2099	9605
Tulare Irrigation District	68.14	71.29	0	0	0	0	6375	0	0	0	17729	17911	0	0	42015
Lakeside Irrigation Water District	69.42		0	0	0	0	0	0	0	0	0	0	0	0	0
Kaweah-Delta Water Conservation District	69.08	71.29	0	0	0	0	0	0	0	0	0	0	0	0	0
Exeter Irrigation District	72.52	79.24	1352	414	84	88	280	1052	922	1232	1709	2269	1944	1342	12688
Lewis Creek Water District	81.54		97	57	9	0	0	105	129	110	176	200	201	116	1200
Lindsay-Strathmore Irrigation District	85.56		2872	1140	236	44	83	2232	2636	3787	4640	5165	5226	4152	c 32213
Lindmore Irrigation District	86.17	91.12	3488	1200	0	0	874	4104	2976	3687	5447	6766	6173	4289	39004
Porterville Irrigation District	93.93	98.62	801	78	0	0	2016	3310	1884	2059	2803	3241	3187	964	20343
Lower Tule Irrigation District	95.67	98.62	5960	0	0	0	18401	14942	6157	8212	20825	17155	6551	0	98203
Tea Pot Dome	99.35		540	192	23	0	0	443	384	709	842	968	1058	684	5843
Saucelito Irrigation District	98.62	107.37	1311	205	257	0	1690	4376	1363	1588	3407	4201	4048	1669	24115
Cloer Community Service District	101.60		0	0	0	0	0	0	0	0	0	0	0	0	0
Terra Bella Irrigation District	102.65		1763	581	19	0	106	1734	1969	2769	3161	3797	3653	2667	22219
Pixley Irrigation District	102.69		0	0	0	0	0	0	0	0	0	0	0	0	0
Delano-Earlimart Irrigation District	109.48	118.45	5586	4014	2409	853	7043	19194	10818	12493	19719	21815	13893	7776	125613
Alpaugh Irrigation District	112.96		0	0	0	0	0	0	0	0	0	0	0	0	0
Southern San Joaquin Municipal Utility District	117.44	127.97	5055	3026	1406	0	6238	16805	7934	10364	15078	19013	14763	7574	107256
Rag Gulch Water District	117.96		0	0	0	0	0	0	0	0	0	0	0	0	0
Kern County Water Agency	130.03		0	0	0	0	0	0	0	0	0	0	0	0	0
Shafter-Wasco Irrigation District	134.42	137.17	1982	1268	596	321	3671	9027	4364	6212	8087	10015	9454	3307	58304
Rosedale Rio Bravo Water Storage District	151.81		0	0	0	0	0	0	0	0	0	0	0	0	0
Buena Vista Water Storage District	151.81		0	0	0	0	0	0	0	0	0	0	0	0	0
Arvin-Edison Water Storage District	151.80		9400	7765	10953	2206	8327	9539	1670	3828	5897	10231	9384	5300	84500
Total			45303	21383	17784	3986	55346	106228	49266	84319	127888	147712	90654	48202	d 798071

Data furnished by U. S. Bureau of Reclamation. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources. Deliveries include operational spill, but do not include wasteway spill.

a Includes deliveries to Westlands Water District under separate agreement.
b Net delivery of (minus) acre-feet results from water being taken from O'Neill Forebay to Delta-Mendota Canal for delivery downstream.
c Includes water transported from Wutchumna Canal.
d Deliveries include operational spill. No wasteway spill.

TABLE B-7

DELIVERIES FROM CALIFORNIA AQUEDUCT[a]
October 1971 through September 1972

WATER USER	MONTHLY DELIVERIES IN ACRE-FEET												TOTAL
	OCT	NOV.	DEC.	JAN	FEB	MAR.	APR	MAY	JUNE	JULY	AUG.	SEPT.	
					North San Joaquin Division								
South Bay Pumping Plant	973	5531	8297	7610	6244	14895	18330	19502	15474	10453	15770	11824	134903
Oak Flat Water District	109	23	0	0	78	1113	1201	1083	1401	1667	1227	348	8250
Mustang Water District	0	0	0	0	0	0	148	376	120	439	524	35	1642
Total	1082	5554	8297	7610	6322	16008	19679	20961	16995	12559	17521	12207	144795
California Aqueduct at Check 12 (Inflow to San Luis Field Division)	50875	28751	14673	25233	19639	142185	135178	103428	80520	23136	117018	155395	896031
					O'Neill Forebay								
San Luis Water District	116	62	62	127	139	762	619	782	736	1010	775	212	5402
					San Luis Division								
Tulare Lake Basin Water Storage District	22575	15324	12632	14551	11742	20728	7247	784	22574	35846	36874	36642	237519
San Luis Water District	2	2	10	396	837	262	417	595	774	1273	439	29	5036
Panoche Water District	1160	3036	1183	1283	3846	3128	2389	1386	4811	5044	3840	974	32080
Westlands Water District	25584	21843	28307	51675	84603	90871	61952	86884	108864	124688	99153	33966	818390
City of Huron	41	32	25	26	25	37	43	67	65	73	63	51	548
City of Coalinga	88	90	90	114	107	172	372	462	551	641	587	414	3688
Avenal Community Service District	-	-	-	-	-	9	38	63	69	82	73	52	386
Total	49450	40327	42247	68045	101160	115207	72458	90241	137798	167647	141029	72128	1097647
					South San Joaquin Division								
Kings County	664	488	663	165	165	80	0	0	165	165	165	165	2885
Dudley Ridge Water District	1880	857	1162	997	1036	3745	3714	3310	6145	7554	6608	4076	41084
Empire West Side Irrigation District	0	771	709	451	544	727	331	129	944	986	1113	492	7197
Hacienda Water District	975	240	99	0	964	1011	819	0	434	1071	843	709	7165
Kern County Water Agency	10935	6179	4979	7486	32339	38232	22435	33665	57579	82862	62321	18048	377060
Buena Vista Farms, Incorporated	477	0	0	0	0	0	490	1342	2863	6351	8680	5077	25280
Buena Vista Water Storage District	0	0	0	0	0	1283	524	881	5449	6409	4704	0	19250
Total	14931	8535	7612	9099	35048	45078	28313	39327	73579	105398	84434	28567	479921
					Coastal Branch								
Devil's Den Water District	1609	1736	1289	1371	758	1316	1197	1233	1506	1637	1765	1099	16516
Kern County Water Agency	3579	256	84	1184	8195	9566	6719	10430	16867	21875	21815	7203	107773
Total	5188	1992	1373	2555	8953	10882	7916	11663	18373	23512	23580	8302	124289
Delta Pumping Plant (Inflow to California Aqueduct)	52325	34309	23204	32858	25656	160070	155997	124548	97147	35942	135109	167967	1045132

Data furnished by the Division of Operations and Maintenance.

a Entitlement, Surplus and Repayment Preconsolidation water have been combined in this table and do not include operational losses or change in storage.

TABLE 8-8

IMPORTS AND EXPORTS
October 1971 through September 1972

WATER USER	IN ACRE-FEET												TOTAL
	OCT	NOV	DEC.	JAN	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT	
						Imports from Delta							
California Aqueduct (a)	51352	28778	14907	25248	19412	145175	137667	105046	81673	25489	119339	156143	910229
Less A. D. Edmonston Pumping Plant	-2882	-0	-2525	-3904	-17408	-28240	-23126	-20094	-14662	-19464	-14160	-136	-146601
Total	48470	28778	12382	21344	2004	116933	114541	84952	67011	6025	105179	156007	763628
Delta Mendota Canal	175945	138183	119448	63597	187141	240009	209611	250010	197545	259924	269950	234255	2345618
Total Imports from Delta	224415	166961	131830	84941	189145	356944	324152	334962	264556	265949	375129	390262	3109246
						Exports from Tuolumne River							
City and County of San Francisco	22165	9547	20009	22195	21583	22719	21812	24748	24577	25995	25848	24875	266073

Data for Delta-Mendota Canal furnished by U. S. Bureau of Reclamation. Data for Tuolumne River exports furnished by City and County of San Francisco; acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

(a) Water pumped at Delta Pumping Plant less deliveries to South Bay Aqueduct.
(b) Includes water delivered to Lawrence Radiation Laboratory.

TABLE B-9

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	C03110'	TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15						LAKE DRY							15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
30 03 10	119 49 35			196.8	6-28-41		FEB 37-DATE	1937		0.00	USCGS

Station located 2.2 miles southwest of Chatom Ranch, 6 miles southwest of Corcoran on south end of El Rico Bridge. Tulare Lake receives water from Kings, Kaweah, and Tule Rivers during high-water periods and occasionally from Kern River, Deer Creek, and several small intermittent streams. Elevation at lowest point of lake bed is now about 175 feet, U. S. Geological Survey datum. Records furnished by Tulare Lake Basin Water Storage District and the Boswell Company.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.30	1.98	1.86	1.84	1.87	2.06	2.21	2.41	2.50	2.53	2.55	2.44	1
2	2.27	1.83	1.85	1.84	1.86	2.07	2.21	2.39	2.56	2.57	2.55	2.45	2
3	2.26	1.82	1.85	1.84	1.86	2.07	2.28	2.39	2.55	2.59	2.59	2.45	3
4	2.22	1.83	1.85	1.85	1.86	2.07	2.51	2.39	2.55	2.61	2.61	2.45	4
5	2.19	1.83	1.85	1.85	1.87	2.06	2.61	2.39	2.60	2.61	2.56	2.41	5
6	2.15	1.83	1.86	1.85	1.88	2.06	2.60	2.39	2.65	2.60	2.52	2.32	6
7	2.12	1.84	1.86	1.85	1.87	2.06	2.59	2.39	2.61	2.60	2.51	2.26	7
8	2.13	1.84	1.86	1.85	1.88	2.10	2.60	2.38	2.53	2.60	2.51	2.21	8
9	2.12	1.85	1.85	1.84	1.89	2.14	2.59	2.38	2.45	2.59	2.51	2.18	9
10	2.12	1.85	1.85	1.84	1.89	2.20	2.59	2.34	2.43	2.57	2.51	2.18	10
11	2.12	1.86	1.86	1.85	1.89	2.18	2.51	2.30	2.40	2.55	2.51	2.18	11
12	2.12	1.87	1.86	1.85	1.90	2.10	2.44	2.30	2.40	2.55	2.51	2.20	12
13	2.14	1.87	1.87	1.84	1.90	2.14	2.39	2.33	2.40	2.58	2.51	2.22	13
14	2.19	1.87	1.87	1.85	1.90	2.27	2.33	2.37	2.39	2.60	2.50	2.29	14
15	2.23	1.87	1.85	1.85	1.90	2.33	2.33	2.36	2.36	2.59	2.47	2.36	15
16	2.26	1.87	1.84	1.85	1.90	2.41	2.32	2.40	2.36	2.59	2.46	2.46	16
17	2.26	1.87	1.84	1.85	1.91	2.48	2.33	2.43	2.36	2.62	2.46	2.45	17
18	2.29	1.86	1.84	1.85	1.92	2.55	2.33	2.40	2.36	2.65	2.47	2.45	18
19	2.33	1.86	1.84	1.86	1.91	2.61	2.34	2.38	2.37	2.65	2.46	2.47	19
20	2.33	1.86	1.84	1.87	1.90	2.57	2.35	2.38	2.43	2.63	2.46	2.50	20
21	2.30	1.86	1.89	1.87	1.96	2.47	2.35	2.38	2.50	2.61	2.46	2.47	21
22	2.26	1.86	1.99	1.87	2.08	2.41	2.41	2.36	2.50	2.60	2.45	2.44	22
23	2.26	1.92	1.84	1.87	2.09	2.36	2.47	2.33	2.53	2.60	2.45	2.44	23
24	2.26	2.08	1.84	1.86	2.16	2.30	2.45	2.30	2.57	2.59	2.45	2.43	24
25	2.25	2.08	1.85	1.86	2.23	2.20	2.47	2.26	2.56	2.59	2.45	2.43	25
26	2.22	2.08	1.85	1.86	2.22	2.21	2.46	2.23	2.56	2.59	2.44	2.41	26
27	2.18	2.08	1.85	1.86	2.20	2.16	2.42	2.26	2.56	2.57	2.44	2.35	27
28	2.15	2.08	1.84	1.86	2.18	2.07	2.42	2.31	2.53	2.55	2.45	2.31	28
29	2.14	2.08	1.84	1.86	2.13	2.07	2.43	2.31	2.49	2.55	2.45	2.29	29
30	2.09	2.02	1.84	1.86		2.07	2.44	2.34	2.50	2.55	2.44	2.28	30
31	2.04		1.84	1.86		2.13		2.41		2.55	2.45		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
6-6-72	0730	2.72									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77200	23.8	12-11-37	OCT 07-DATE		1938		294.00	USGS

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	61.96	61.88	61.60	62.72	62.16	61.46	61.46	61.57	61.42	60.99	61.32	61.56	1
2	61.79	61.88	61.61	62.56	62.18	61.50	61.46	61.60	61.44	61.04	61.35	61.52	2
3	61.73	61.74	61.63	62.40	62.14	61.45	61.47	61.54	61.44	61.09	61.33	61.54	3
4	61.81	61.71	61.64	62.23	62.18	61.43	61.80	61.59	61.46	61.10	61.29	61.56	4
5	61.99	61.71	61.75	62.12	62.21	61.45	61.86	61.53	61.39	61.14	61.33	61.61	5
6	62.00	61.67	61.70	62.04	62.25	61.47	61.72	61.48	61.32	61.27	61.37	61.61	6
7	61.85	61.79	61.60	62.00	62.71	61.47	61.70	61.56	61.33	61.23	61.35	61.61	7
8	61.79	62.18	61.72	61.97	63.56	61.51	61.58	61.59	61.35	61.21	61.38	61.60	8
9	61.70	62.29	61.62	62.00	63.23	61.62	61.52	61.82	61.36	61.12	61.42	61.57	9
10	61.71	62.52	61.57	62.00	63.07	61.70	61.51	61.70	61.28	61.09	61.44	61.96	10
11	61.57	62.47	61.55	61.97	62.88	61.67	61.51	61.55	61.22	61.07	61.48	62.84	11
12	61.77	62.43	61.54	61.89	62.68	61.65	61.53	61.56	61.21	61.05	61.45	62.74	12
13	61.81	62.39	61.58	61.88	62.59	61.65	61.55	61.48	61.21	61.16	61.36	62.90	13
14	61.77	62.29	61.61	61.91	62.44	61.63	61.63	61.40	61.26	61.21	61.26	63.01	14
15	61.74	62.19	61.57	61.91	62.32	61.64	61.65	61.35	61.31	61.22	61.19	62.92	15
16	61.74	62.03	61.56	61.95	62.22	61.63	61.60	61.33	61.28	61.14	61.12	63.01	16
17	61.65	61.98	61.54	62.05	62.16	61.65	61.57	61.36	61.22	61.09	61.11	63.12	17
18	61.66	61.94	61.51	62.21	61.99	61.64	61.56	61.45	61.23	61.06	61.33	63.18	18
19	61.66	61.85	61.53	62.43	61.92	61.59	61.54	61.48	61.25	61.03	61.44	63.37	19
20	61.60	61.86	61.52	62.40	61.88	61.53	61.58	61.46	61.24	61.05	61.40	63.20	20
21	61.61	61.71	61.51	62.35	61.75	61.49	61.65	61.38	61.23	61.02	61.36	62.83	21
22	61.69	61.77	61.52	62.30	61.63	61.48	61.63	61.35	61.17	61.00	61.39	62.41	22
23	61.90	61.76	61.61	62.27	61.55	61.43	61.63	61.37	61.17	61.03	61.40	62.02	23
24	61.91	61.75	61.79	62.28	61.53	61.44	61.60	61.35	61.16	61.19	61.44	61.93	24
25	62.05	61.73	61.89	62.24	61.54	61.53	61.60	61.39	61.12	61.33	61.66	61.92	25
26	61.97	61.67	61.86	62.21	61.51	61.48	61.63	61.37	61.10	61.40	61.97	61.77	26
27	61.76	61.61	61.83	62.17	61.47	61.48	61.65	61.44	61.12	61.41	62.05	61.63	27
28	61.64	61.60	62.61	62.16	61.44	61.52	61.66	61.66	61.12	61.30	61.95	61.62	28
29	62.08	61.60	63.81	62.35	61.42	61.53	61.57	61.57	61.05	61.22	61.95	61.59	29
30	62.05	61.60	63.84	62.18		61.46	61.53	61.37	61.01	61.14	61.91	62.06	30
31	61.84		63.08	62.06		61.49		61.40		61.20	61.63		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-29-71	2030	64.36									
2- 8-72	0515	63.63									
9-19-72	1200	63.37									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 17 42	120 51 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flows regulated by upstream reservoirs and diversions. Drainage area is 7,388 square miles.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	54.73	54.50	54.55	55.66	55.47	54.81	55.71	54.79	54.59	54.26	54.48	54.89	1
2	54.82	54.50	54.48	55.50	55.50	54.82	55.32	54.95	54.64	54.21	54.46	54.86	2
3	54.90	54.45	54.49	55.40	55.52	54.89	55.45	54.86	54.45	54.33	54.57	54.76	3
4	54.97	54.38	54.56	55.31	55.55	54.90	55.56	54.58	54.60	54.51	54.49	54.71	4
5	54.99	54.37	54.67	55.23	55.64	55.00	55.62	54.53	54.69	54.49	54.45	54.72	5
6	55.00	54.37	54.69	55.11	55.70	55.04	55.52	54.58	54.70	54.58	54.57	54.76	6
7	54.87	54.45	54.69	55.13	55.79	54.96	55.57	54.56	54.68	54.63	54.66	54.85	7
8	54.68	54.65	54.64	55.15	56.30	55.04	55.42	54.75	54.77	54.61	54.67	54.81	8
9	54.55	54.74	54.62	55.13	56.33	55.08	55.25	54.93	54.84	54.73	54.67	54.91	9
10	54.54	54.80	54.57	55.09	56.11	55.25	55.18	55.04	54.97	54.75	54.83	54.97	10
11	54.47	54.84	54.51	55.06	55.95	55.25	55.10	54.78	54.90	54.79	54.93	55.13	11
12	54.37	54.89	54.45	55.00	55.83	55.22	55.17	54.59	54.83	54.63	54.85	55.39	12
13	54.54	55.00	54.47	54.88	55.69	55.23	55.71	54.54	54.79	54.65	54.87	55.25	13
14	54.56	55.09	54.40	54.90	55.65	55.25	55.40	54.78	54.90	54.50	54.75	55.41	14
15	54.67	55.09	54.35	55.01	55.62	55.35	55.51	54.88	54.87	54.42	54.88	55.45	15
16	54.67	55.05	54.30	55.02	55.51	55.50	55.51	54.93	54.77	54.33	54.80	55.39	16
17	54.63	54.98	54.35	55.19	55.55	55.58	55.53	54.74	54.62	54.42	54.87	55.56	17
18	54.58	54.90	54.40	55.43	55.59	55.68	55.42	54.66	54.72	54.36	54.86	55.72	18
19	54.54	54.85	54.40	55.82	55.61	55.78	55.03	54.70	54.73	54.40	54.93	55.66	19
20	54.52	54.79	54.35	55.89	55.64	55.79	54.93	54.76	54.82	54.72	54.90	55.62	20
21	54.60	54.82	54.26	55.85	55.66	55.87	54.91	54.90	54.65	54.65	54.82	55.66	21
22	54.62	54.77	54.31	55.83	55.63	55.87	54.86	54.93	54.51	54.63	54.82	55.52	22
23	54.67	54.73	54.42	55.86	55.61	55.79	54.64	54.98	54.42	54.60	54.80	55.20	23
24	54.65	54.67	54.45	55.84	55.50	55.68	54.77	54.99	54.61	54.60	54.97	54.95	24
25	54.75	54.65	54.67	55.72	55.36	55.65	54.84	55.03	54.64	54.69	55.02	55.07	25
26	54.76	54.60	54.98	55.68	55.14	55.52	54.85	55.00	54.61	54.80	55.11	55.23	26
27	54.73	54.53	55.18	55.68	55.08	55.41	54.96	54.92	54.72	54.70	55.05	55.10	27
28	54.57	54.51	55.43	55.62	55.03	55.40	55.04	54.89	54.83	54.612	54.97	54.91	28
29	54.63	54.54	55.92	55.64	54.95	55.42	54.90	54.86	54.72	54.66	54.85	54.85	29
30	54.74	54.57	56.51	55.60		55.43	54.77	54.73	54.47	54.60	54.94	54.84	30
31	54.66		56.07	55.47		55.39		54.59		54.63	55.01		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-30-71	0900	56.58	3-21-72	1500	55.90						
1-19-72	0500	55.92									
2- 8-72	1800	56.41									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT DHLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 18 35	120 55 45		9180a	68.05	2-26-69	MAR 37-DATE		1944	1957	-3.73	USCGS
								1957	1959	-3.77	USCGS
								1959		0.00	USCGS

Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevinson, 6.7 miles upstream from the Merced River. Drainage area is approximately 8,090 square miles. Flow records are published in U. S. Geological Survey report "Surface Water Records of California".

a During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	6.38	6.32	6.49	6.55	8.72	6.56	6.23	6.21	6.12	6.03	6.19	5.94	1
2	6.58	6.35	6.52	6.56	8.72	6.59	6.22	6.13	6.15	6.10	6.18	5.88	2
3	6.81	6.37	6.52	6.79	8.71	6.65	6.14	6.08	6.11	6.10	6.16	5.92	3
4	7.09	6.42	6.55	7.96	8.73	6.70	6.01	6.02	6.08	6.08	6.14	5.96	4
5	7.21	6.73	6.55	8.05	8.80	6.66	6.10	6.04	6.07	6.10	6.15	7.45	5
6	8.07	6.82	6.53	8.07	8.74	6.55	6.33	6.04	6.18	6.09	6.10	8.92	6
7	8.60	6.81	6.50	8.08	8.70	7.45	6.14	6.09	6.30	6.10	6.05	9.06	7
8	8.69	6.73	6.50	8.09	8.72	8.66	6.11	6.10	6.21	6.07	6.11	9.15	8
9	8.65	6.40	6.48	8.10	8.48	7.73	6.04	6.09	6.04	6.05	6.11	9.17	9
10	7.48	6.46	6.48	8.09	7.77	6.62	5.98	6.07	6.02	6.06	6.18	9.18	10
11	6.39	6.55	6.48	8.26	7.64	6.62	6.39	6.28	6.11	6.06	6.19	9.21	11
12	6.32	6.57	6.50	8.65	7.61	6.76	6.49	6.16	6.20	6.11	6.21	9.21	12
13	6.30	6.51	6.49	8.69	7.62	6.64	6.37	6.15	6.08	6.10	6.22	9.27	13
14	6.35	6.49	6.51	8.67	7.59	6.42	6.14	6.15	6.03	6.06	6.19	9.30	14
15	6.35	6.49	6.52	8.65	7.58	6.50	6.15	6.12	6.09	5.98	6.11	9.25	15
16	6.35	6.48	6.53	8.65	7.60	6.43	6.14	6.12	6.16	6.03	6.09	9.25	16
17	6.35	6.48	6.53	8.62	7.21	6.42	6.16	6.20	6.15	6.08	6.09	9.26	17
18	6.29	6.48	6.53	8.68	6.58	6.45	6.19	6.22	6.12	6.02	6.10	9.31	18
19	6.29	6.50	6.53	8.73	6.56	6.46	6.14	6.20	6.13	6.05	6.11	9.32	19
20	6.30	6.52	6.51	8.71	6.55	6.42	6.05	6.23	6.10	6.06	6.12	9.34	20
21	6.29	6.50	6.58	8.70	6.54	6.37	6.06	6.22	6.09	6.05	6.11	9.35	21
22	6.30	6.50	6.67	8.68	6.54	6.47	6.21	6.19	6.06	6.09	6.13	8.97	22
23	6.29	6.51	6.62	8.68	6.53	6.43	6.03	6.13	6.00	6.06	6.05	8.71	23
24	6.26	6.51	6.59	8.67	6.54	6.21	6.06	6.14	6.08	6.01	5.97	8.71	24
25	6.26	6.55	6.58	8.72	6.53	6.15	6.06	6.20	6.13	5.92	5.86	8.73	25
26	6.32	6.54	6.59	8.70	6.52	6.02	6.10	6.25	6.15	5.97	5.86	8.75	26
27	6.32	6.48	6.68	8.71	6.48	6.10	6.12	6.31	6.03	6.07	5.84	8.33	27
28	6.30	6.55	6.84	8.76	6.49	6.10	6.09	6.29	6.07	6.18	5.92	8.09	28
29	6.30	6.52	6.61	8.70	6.51	6.12	6.14	6.24	6.03	6.13	5.92	8.16	29
30	6.30	6.49	6.60	8.68		6.15	6.25	6.21	5.99	6.22	5.93	8.39	30
31	6.30		6.59	8.68		6.21		6.10		6.17	5.93		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
10- 7-71	2400	8.80									
1-19-72	1230	9.08									
9-19-72	1400	9.36									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		221.12	USGS

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by upstream reservoirs and dams. Drainage area is 1,096 square miles. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11.10	10.96	11.10	11.22	13.58	11.05	10.72	10.68	10.68	10.74	10.84	10.78	1
2	11.15	10.97	11.10	11.18	13.60	11.08	10.82	10.68	10.60	10.75	10.78	10.72	2
3	11.28	10.98	11.15	11.18	13.60	11.10	10.83	10.62	10.60	10.72	10.87	10.77	3
4	11.47	11.00	11.15	11.51	13.60	11.16	10.75	10.61	10.60	10.84	10.97	10.75	4
5	11.67	11.06	11.15	12.48	13.66	11.19	10.70	10.60	10.62	10.93	10.90	10.79	5
6	11.88	11.22	11.14	12.65	13.98	11.14	10.72	10.57	10.59	10.85	10.80	12.14	6
7	13.22	11.34	11.14	12.70	13.79	11.04	10.86	10.59	10.62	10.79	10.84	13.85	7
8	13.62	11.35	11.12	12.71	13.63	12.41	10.75	10.59	10.67	10.65	10.73	14.54	8
9	13.69	11.29	11.11	12.71	13.63	13.21	10.76	10.58	10.72	10.64	10.72	14.51	9
10	13.65	11.06	11.11	12.78	13.07	11.76	10.76	10.63	10.68	10.79	10.78	14.59	10
11	12.04	11.08	11.11	12.70	13.39	11.21	10.72	10.55	10.74	10.78	10.77	14.57	11
12	11.16	11.18	11.11	13.12	12.23	11.13	11.07	10.62	10.80	10.72	10.80	14.67	12
13	11.05	11.19	11.11	13.47	12.16	11.21	11.16	10.69	10.77	10.69	10.87	14.72	13
14	10.98	11.15	11.09	13.52	12.16	11.12	10.99	10.67	10.81	10.71	10.86	14.70	14
15	11.00	11.11	11.10	13.50	12.13	10.98	10.87	10.71	10.70	10.80	10.78	14.73	15
16	11.03	11.10	11.10	13.50	12.14	10.97	10.86	10.68	10.65	10.72	10.76	14.65	16
17	11.03	11.10	11.12	13.47	12.13	10.91	10.84	10.64	10.70	10.68	10.75	14.69	17
18	11.04	11.10	11.12	13.43	11.59	10.90	10.77	10.65	10.83	10.73	10.73	14.69	18
19	11.02	11.10	11.13	13.54	11.27	10.95	10.73	10.69	10.73	10.83	10.74	14.72	19
20	11.00	11.10	11.12	13.60	11.22	11.02	10.67	10.72	10.72	10.80	10.89	14.76	20
21	10.99	11.11	11.11	13.56	11.20	10.95	10.61	10.79	10.74	10.82	10.93	14.74	21
22	10.97	11.10	11.20	13.55	11.19	10.86	10.61	10.83	10.69	10.85	10.86	14.70	22
23	10.99	11.10	11.28	13.54	11.14	10.99	10.72	10.76	10.64	10.85	10.83	13.92	23
24	10.98	11.11	11.24	13.51	11.12	10.98	10.76	10.71	10.65	10.86	10.82	13.77	24
25	10.96	11.10	11.22	13.53	11.13	10.84	10.60	10.68	10.68	10.82	10.75	13.73	25
26	10.94	11.12	11.20	13.58	10.95	10.86	10.63	10.65	10.75	10.73	10.72	13.77	26
27	10.96	11.12	11.22	13.57	11.06	10.70	10.64	10.65	10.78	10.57	10.75	13.78	27
28	10.98	11.10	11.67	13.69	11.07	10.65	10.66	10.71	10.72	10.59	10.81	13.04	28
29	10.97	11.14	11.68	13.65	11.06	10.69	10.58	10.80	10.61	10.68	10.81	12.92	29
30	10.96	11.11	11.34	13.61		10.75	10.60	10.81	10.65	10.80	10.81	13.07	30
31	10.97		11.26	13.58		10.75		10.77		10.85	10.79		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-8-71	2100	13.80									
2-6-72	1400	14.10									
9-8-72	1430	15.78									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67	12-4-50	JUL 41-DATE	APR 41-JUL 41	1950	1962	96.24	USCGS
				32.67a	12-4-50			1962		86.23	USCGS

Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flow regulated by upstream reservoirs and diversions. Drainage area is 1,224 square miles.

a Reflects present datum.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B07300	SAN JOAQUIN RIVER NEAR NEWMAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	47.67	47.79	48.23	49.09	50.98	48.16	48.07	47.59	47.01	46.87	46.95	47.36	1
2	47.79	47.79	48.21	48.91	50.96	48.22	48.03	47.62	47.10	46.83	46.85	47.29	2
3	47.74	47.78	48.25	48.80	50.96	48.23	48.18	47.66	47.01	46.76	46.89	47.25	3
4	47.86	47.73	48.32	48.71	50.95	48.11	48.19	47.47	47.03	46.87	46.91	47.19	4
5	48.02	47.74	48.37	48.83	50.97	48.20	48.15	47.42	47.12	46.90	46.86	47.18	5
6	48.16	47.79	48.39	49.32	51.07	48.33	48.08	47.46	46.98	46.93	46.95	47.21	6
7	48.29	47.92	48.31	49.56	51.26	48.25	48.05	47.43	46.94	46.92	47.05	47.57	7
8	48.95	48.10	48.23	49.69	51.38	48.25	48.03	47.50	47.00	46.87	46.97	49.04	8
9	49.46	48.22	48.26	49.71	51.36	49.07	47.97	47.60	47.13	46.91	46.88	50.12	9
10	49.68	48.20	48.18	49.71	51.29	49.73	47.92	47.62	47.27	46.97	46.92	50.61	10
11	49.74	48.10	48.15	49.73	50.79	49.18	47.94	47.50	47.25	47.00	47.08	50.84	11
12	48.95	48.07	48.06	49.69	50.34	48.76	47.96	47.42	47.29	46.97	47.03	51.06	12
13	48.25	48.14	48.01	49.90	50.17	48.56	48.05	47.35	47.25	46.92	47.08	51.15	13
14	48.06	48.28	48.00	50.17	50.06	48.49	48.22	47.36	47.25	46.82	47.13	51.26	14
15	48.08	48.33	47.96	50.30	50.00	48.45	48.31	47.45	47.20	46.87	47.29	51.38	15
16	48.05	48.35	47.94	50.38	49.91	48.48	48.32	47.48	47.14	46.88	47.28	51.39	16
17	47.96	48.31	47.94	50.63	49.80	48.46	48.29	47.36	47.09	46.91	47.17	51.37	17
18	47.92	48.22	48.01	50.92	49.73	48.38	48.19	47.20	47.00	46.83	47.28	51.50	18
19	47.87	48.14	47.95	51.22	49.41	48.42	47.84	47.16	47.07	46.69	47.22	51.46	19
20	47.79	48.12	47.92	51.35	49.17	48.48	47.63	47.24	47.01	46.89	47.26	51.48	20
21	47.77	48.22	47.86	51.35	49.08	48.52	47.62	47.39	46.97	46.99	47.23	51.58	21
22	47.83	48.26	47.92	51.31	49.01	48.49	47.59	47.44	46.89	47.00	47.27	51.62	22
23	47.89	48.32	48.08	51.31	48.95	48.36	47.50	47.42	46.87	47.02	47.30	51.50	23
24	47.85	48.28	48.17	51.27	48.81	48.31	47.54	47.47	46.96	47.17	47.35	50.85	24
25	47.90	48.29	48.37	51.20	48.68	48.27	47.66	47.44	47.02	47.09	47.46	50.66	25
26	47.94	48.23	48.64	51.17	48.61	48.17	47.65	47.44	47.09	47.06	47.47	50.65	26
27	47.93	48.16	48.91	51.18	48.49	48.10	47.62	47.35	47.13	47.00	47.41	50.67	27
28	47.86	48.16	49.06	51.16	48.38	48.04	47.66	47.30	47.16	46.96	47.37	50.55	28
29	47.81	48.20	49.44	51.19	48.26	48.01	47.66	47.41	47.14	46.92	47.28	50.17	29
30	47.89	48.20	49.71	51.13		47.97	47.56	47.31	46.98	46.94	47.22	49.98	30
31	47.89		49.39	51.03		48.03		47.12		47.00	47.36		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
2- 8-72	1430	51.40									
9- 2-72	0700	51.66									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 21 02	120 58 34	SW 3 7S 9E	34700a	65.90	2-26-69	APR 12-DATE		1912		47.24	USCGS
									1959	47.31	USCGS
								1959		0.00	USCGS

Station located 300 feet downstream from bridge on Hills Ferry Road, 500 feet downstream from the Merced River, 3.5 miles northeast of Newman. Records furnished by U. S. Geological Survey. Drainage area is 9,520 square miles. This station equipped with DWR radio telemeter. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Flows regulated by upstream reservoirs and diversions.

a During periods of high flow the Merced River overflows into Merced River Slough bypassing this station on the San Joaquin River. The maximum discharge of record (33,300 cfs) includes flow in Merced River Slough.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B07250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	38.82	38.66	39.03	39.90	41.60	38.96	39.00	38.62	38.06	38.00	38.21	38.36	1
2	38.88	38.63	39.03	39.74	41.59	38.97	39.02	38.58	38.19	37.94	38.09	38.33	2
3	38.85	38.64	39.05	39.64	41.59	39.05	39.14	38.71	38.18	37.85	38.08	38.37	3
4	38.89	38.60	39.12	39.55	41.58	38.95	39.07	38.52	38.14	37.90	38.08	38.45	4
5	39.07	38.60	39.14	39.53	41.59	38.97	39.09	38.50	38.27	38.05	38.07	38.41	5
6	39.18	38.60	39.20	39.91	41.62	39.12	39.17	38.56	38.10	38.05	38.10	38.34	6
7	39.25	38.71	39.15	40.16	41.76	39.07	39.06	38.51	38.04	38.09	38.20	38.37	7
8	39.59	38.86	39.07	40.33	41.87	39.08	39.09	38.66	38.12	38.04	38.14	39.40	8
9	40.14	38.96	39.08	40.37	41.90	39.40	39.04	38.66	38.15	38.11	38.03	40.37	9
10	40.33	39.01	39.05	40.40	41.86	40.29	38.94	38.73	38.39	38.20	38.10	40.94	10
11	40.48	38.97	38.99	40.42	41.56	40.13	38.94	38.65	38.47	38.21	38.25	41.23	11
12	40.12	38.93	38.97	40.41	41.10	39.75	39.03	38.49	38.45	38.21	38.33	41.45	12
13	39.44	38.96	38.88	40.49	40.89	39.50	39.00	38.42	38.34	38.10	38.30	41.56	13
14	39.20	39.09	38.85	40.76	40.77	39.37	39.12	38.41	38.34	38.02	38.34	41.66	14
15	39.11	39.15	38.83	40.89	40.68	39.30	39.19	38.48	38.27	38.00	38.34	41.78	15
16	39.15	39.14	38.80	40.98	40.60	39.34	39.30	38.54	38.24	38.02	38.45	41.84	16
17	39.06	39.15	38.78	41.15	40.50	39.39	39.30	38.42	38.23	38.05	38.28	41.90	17
18	38.93	39.06	38.84	41.40	40.44	39.30	39.24	38.32	38.21	38.08	38.36	42.09	18
19	38.86	38.98	38.82	41.67	40.22	39.36	39.00	38.25	38.20	37.86	38.33	42.04	19
20	38.75	38.95	38.79	41.82	39.92	39.48	38.66	38.29	38.13	37.91	38.48	42.06	20
21	38.72	39.01	38.74	41.86	39.81	39.46	38.62	38.38	38.14	38.17	38.43	42.13	21
22	38.70	39.08	38.78	41.84	39.72	39.47	38.63	38.50	37.97	38.14	38.38	42.17	22
23	38.78	39.13	38.90	41.85	39.64	39.35	38.57	38.45	37.93	38.21	38.35	42.13	23
24	38.74	39.10	38.99	41.82	39.56	39.26	38.57	38.50	38.09	38.43	38.37	41.70	24
25	38.72	39.09	39.18	41.78	39.42	39.18	38.59	38.46	38.25	38.39	38.45	41.35	25
26	38.78	39.06	39.34	41.73	39.33	39.02	38.69	38.54	38.34	38.28	38.50	41.29	26
27	38.80	39.00	39.61	41.75	39.25	38.95	38.67	38.47	38.35	38.15	38.49	41.28	27
28	38.76	38.96	39.75	41.73	39.15	38.89	38.65	38.40	38.28	38.13	38.54	41.21	28
29	38.67	39.01	40.00	41.75	39.04	39.00	38.72	38.47	38.20	38.12	38.49	40.95	29
30	38.71	39.01	40.31	41.73		38.94	38.62	38.41	38.10	38.23	38.26	40.72	30
31	38.78		40.18	41.66		38.97		38.26		38.26	38.35		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-11-71	0700	40.51									
2-09-72	1000	41.91									
9-22-72	1100	42.18									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 26 52	121 00 44	NW 8 6S 9E	30760	58.81	2-26-69	OCT 65-SEP 72	41-SEP 72		1959	0.00	USED
								1959		0.00	USGS
								1959		3.51	USED

Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing.
Flows regulated by upstream reservoirs, and diversions. Record discontinued September 30, 1972.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	32.79	32.54	32.79	33.68	35.29	32.52	32.80	32.66	32.08	32.93	33.28	33.39	1
2	32.84	32.50	32.61	33.51	35.26	32.63	32.94	32.52	32.52	32.85	33.11	33.37	2
3	32.83	32.49	32.81	33.41	35.26	32.69	33.04	32.57	33.24	32.76	33.06	33.42	3
4	32.85	32.47	32.85	33.33	35.26	32.53	32.90	32.51	33.20	32.76	33.08	33.65	4
5	32.99	32.45	32.88	33.29	35.26	32.50	32.85	32.47	33.36	33.09	33.08	33.61	5
6	33.08	32.45	32.92	33.55	35.28	32.57	32.92	32.64	33.16	33.12	33.18	33.65	6
7	33.14	32.51	32.89	33.81	35.40	32.46	32.88	32.65	33.09	33.05	33.25	33.71	7
8	33.30	32.62	32.85	33.97	35.53	32.47	32.75	32.83	33.15	32.98	33.22	34.05	8
9	33.79	32.73	32.83	34.04	35.60	32.53	32.87	32.87	33.29	33.01	33.12	34.56	9
10	34.05	32.78	32.85	34.06	35.57	33.40	32.84	32.94	33.37	33.14	33.11	35.00	10
11	34.21	32.80	32.77	34.08	35.38	33.54	32.71	32.94	33.63	33.10	33.25	35.09	11
12	34.08	32.77	32.76	34.09	34.88	33.16	32.85	32.71	33.61	33.14	33.35	35.18	12
13	33.48	32.76	32.68	34.12	34.62	32.98	32.72	32.57	33.53	33.09	33.42	35.37	13
14	33.17	32.83	32.67	34.34	34.49	32.90	32.73	32.52	33.40	32.98	33.47	35.35	14
15	33.07	32.89	32.64	34.49	34.38	32.77	32.88	32.60	33.33	32.88	33.33	35.57	15
16	33.09	32.91	32.61	34.59	34.30	32.75	32.97	32.62	33.36	32.93	33.48	35.66	16
17	32.96	32.91	32.59	34.72	34.23	32.83	32.96	32.80	33.29	33.07	33.42	35.77	17
18	32.83	32.86	32.61	34.95	34.14	32.72	32.77	32.54	33.24	33.02	33.47	35.97	18
19	32.77	32.79	32.63	35.23	33.98	32.75	32.67	32.30	33.31	32.94	33.43	35.98	19
20	32.67	32.74	32.60	35.43	33.72	32.99	32.30	32.38	33.25	32.90	33.53	35.93	20
21	32.62	32.75	32.58	35.52	33.58	33.07	32.12	32.56	33.23	33.05	33.53	35.94	21
22	32.60	32.83	32.62	35.51	33.48	33.36	32.15	32.77	33.12	33.14	33.40	35.96	22
23	32.65	32.88	32.68	35.50	33.41	32.93	32.24	32.67	32.97	33.23	33.38	36.00	23
24	32.63	32.88	32.76	35.50	33.32	32.75	32.25	32.58	33.07	33.32	33.35	35.78	24
25	32.59	32.86	32.96	35.47	33.20	32.78	32.13	32.45	33.35	33.35	33.47	35.40	25
26	32.63	32.84	33.08	35.42	33.11	32.63	32.20	32.39	33.40	33.27	33.56	35.21	26
27	32.63	32.79	33.29	35.44	33.02	32.54	32.31	32.43	33.31	33.19	33.60	35.23	27
28	32.61	32.76	33.48	35.42	32.90	32.46	32.52	32.47	33.20	33.22	33.67	35.16	28
29	32.56	32.77	33.66	35.42	32.66	32.56	32.62	32.44	33.15	33.14	33.59	34.97	29
30	32.56	32.79	33.92	35.41		32.58	32.63	32.36	33.11	33.20	33.27	34.76	30
31	32.59		33.92	35.34		32.66		32.09		33.29	33.37		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-21-72	0930	35.53									
2- 9-72	0615	35.61									
9-18-72	1715	36.09									

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 29 52	121 04 52	SW15 5S 8E		54.0	6-13-38		APR 38-SEP 66	1938	1959	0.00	USED
				50.47a	6-13-38	OCT 69-DATE		1959		0.00	USCGS
			5460b	42.65	3- 9-70			1959		3.53	USED

Station located 1000 feet downstream on left bank from the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Drainage area is 9,758 square miles.

a Reflects present datum.
b Maximum discharge since station was rated in October 1969.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B04175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16				THIS STATION DISCONTINUED AS OF SEPTEMBER 30, 1971									16
17				* SEE BELOW									17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

CREST STAGES

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 59	120 27 40	NW20 3S 14E		188.0	12- 8-50	OCT 36-SEP 60		1937		1.76	USGS
			52200	186.29	1-26-69	OCT 61-DATE					

Station located at Highway bridge, immediately north of La Grange. Flow regulated by La Grange and Don Pedro Dams. Diversions to Modesto and Owens Canals are above La Grange Dam. Drainage area is 1,540 square miles.

* A new FPC station was installed upstream 1.2 miles by the City and County of San Francisco. The station is operated by the U. S. Geological Survey. Since October 1, 1970, these data are published in the USGS "Water Resources Data for California," Volume 2, Part 1, Surface Water Records.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	69.75	70.69	70.85	70.80	71.24	71.43	70.52	69.98	69.55	69.57	69.54	69.53	1
2	70.51	70.98	70.85	70.74	71.73	71.05	70.13	69.76	69.56	69.55	69.49	69.51	2
3	70.58	71.05	70.87	70.77	71.69	70.83	70.09	69.69	69.54	69.55	69.51	69.55	3
4	70.57	71.08	70.85	71.46	71.51	70.73	70.05	69.67	69.55	69.50	69.53	69.59	4
5	70.57	71.06	70.85	71.34	71.47	70.72	70.11	69.66	69.55	69.50	69.52	69.57	5
6	70.54	70.82	70.85	71.27	70.74	70.70	70.18	69.63	69.52	69.52	69.52	69.57	6
7	70.69	70.81	70.90	71.25	70.85	70.72	70.07	69.62	69.53	69.54	69.54	69.61	7
8	70.60	70.81	70.94	71.07	71.43	70.72	70.06	69.61	69.54	69.54	69.52	69.59	8
9	70.60	70.81	70.97	70.68	71.45	70.72	70.07	69.59	69.56	69.55	69.52	69.55	9
10	70.57	70.80	71.07	70.74	71.09	70.72	70.07	69.60	69.58	69.55	69.54	69.58	10
11	70.62	70.83	71.13	71.22	71.25	70.71	70.10	69.60	69.57	69.50	69.53	69.61	11
12	70.62	70.84	71.14	70.81	70.83	70.72	70.10	69.60	69.58	69.52	69.53	69.57	12
13	70.61	70.83	71.17	70.96	70.63	70.71	70.07	69.60	69.51	69.53	69.56	69.58	13
14	70.65	70.84	71.28	70.86	70.93	70.70	70.05	69.59	69.50	69.55	69.58	69.58	14
15	71.31	70.82	71.34	70.73	71.24	70.69	70.04	69.56	69.54	69.53	69.55	69.59	15
16	71.75	70.83	71.40	70.60	71.18	70.70	70.04	69.53	69.54	69.54	69.54	69.60	16
17	70.96	70.82	71.38	70.63	71.17	70.72	70.02	69.57	69.54	69.52	69.55	69.59	17
18	70.73	70.82	71.34	71.02	71.15	70.72	70.00	69.58	69.56	69.48	69.57	69.59	18
19	70.11	70.84	71.32	70.94	70.92	70.73	70.01	69.58	69.54	69.49	69.51	69.58	19
20	70.84	70.84	71.18	70.78	70.75	70.72	70.01	69.58	69.51	69.50	69.58	69.58	20
21	70.13	70.84	70.72	70.78	70.61	70.73	70.03	69.60	69.53	69.53	69.58	69.60	21
22	70.09	70.83	70.71	70.61	70.75	70.74	70.04	69.59	69.55	69.54	69.52	69.61	22
23	70.58	70.84	70.78	70.61	71.15	70.74	70.03	69.58	69.57	69.55	69.51	69.60	23
24	70.63	70.84	70.65	70.60	71.24	70.74	70.02	69.55	69.60	69.56	69.53	69.60	24
25	71.56	70.85	70.68	70.78	71.28	70.74	70.01	69.56	69.58	69.54	69.59	69.62	25
26	70.68	70.85	70.64	70.73	71.11	70.74	70.00	69.56	69.57	69.51	69.61	69.57	26
27	71.06	70.84	70.65	70.75	70.61	70.74	69.98	69.59	69.54	69.50	69.59	69.60	27
28	71.07	70.87	70.75	70.66	70.70	70.72	69.99	69.59	69.52	69.53	69.59	69.62	28
29	71.08	70.87	71.15	70.66	71.17	70.73	70.00	69.59	69.51	69.54	69.57	69.66	29
30	71.07	70.85	71.26	70.66		70.72	70.01	69.57	69.56	69.57	69.54	69.68	30
31	70.91		71.16	70.68		70.72		69.55		69.56	69.54		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-16-71	0200	73.25									
2- 3-72	0500	72.40									
3- 1-72	0500	71.76									

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 35 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932		-1.13	USCGS

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge. Drainage area is 1,655 square miles.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.25	67.62	67.50	68.16	68.02	67.73	68.38	68.06	67.85	67.86	67.88	67.98	1
2	68.45	67.60	67.50	67.99	67.92	68.14	68.35	68.02	67.87	67.85	67.88	67.99	2
3	68.47	67.61	67.50	67.87	67.83	67.65	68.37	67.87	67.89	67.83	67.90	68.00	3
4	68.46	67.60	67.52	67.78	67.76	67.90	68.55	67.88	67.90	67.85	67.86	68.06	4
5	68.55	67.56	67.88	67.72	67.75	67.93	68.53	67.89	67.90	67.84	67.91	67.95	5
6	68.49	67.56	67.80	67.70	68.49	67.87	68.66	67.85	67.87	67.83	67.91	67.87	6
7	68.50	67.56	67.65	67.66	70.00	68.02	68.58	67.88	67.85	67.83	67.92	67.94	7
8	69.35	67.55	67.57	67.64	68.68	68.01	68.41	67.90	67.86	67.85	67.80	68.05	8
9	69.40	67.55	67.55	67.63	68.22	68.10	68.36	67.94	67.86	67.83	67.80	68.03	9
10	69.43	67.53	67.53	67.62	68.01	68.12	68.30	67.97	67.81	67.81	67.83	68.02	10
11	69.47	67.51	67.50	67.59	67.89	68.02	68.35	67.89	67.88	67.85	67.83	68.02	11
12	69.53	67.56	67.51	67.57	67.82	68.08	68.43	68.00	67.93	67.84	67.89	68.10	12
13	69.50	67.68	67.50	67.54	67.75	68.14	68.43	68.00	67.93	67.84	67.88	68.07	12
14	69.68	67.60	67.48	67.53	67.70	68.17	68.35	67.89	67.97	67.84	67.97	68.11	14
15	70.07	67.58	67.49	67.52	67.69	68.08	68.37	67.96	67.97	67.84	67.90	68.10	15
16	70.35	67.54	67.50	67.53	67.77	68.09	68.17	67.94	67.99	67.84	67.93	67.98	16
17	70.26	67.51	67.49	67.54	67.72	68.08	68.09	67.91	67.97	67.83	67.89	68.07	17
18	69.51	67.51	67.48	67.54	67.67	68.09	68.10	67.89	67.92	67.82	68.01	68.15	18
19	68.82	67.50	67.46	67.53	67.66	68.20	68.03	67.96	67.87	67.82	67.97	68.17	19
20	68.82	67.49	67.45	67.53	67.62	68.20	68.08	67.84	67.84	67.83	67.91	68.17	20
21	67.85	67.50	67.45	67.52	67.61	68.22	68.08	67.87	67.80	67.82	67.92	68.12	21
22	67.72	67.50	67.55	67.51	67.74	68.26	68.12	67.96	67.77	67.83	67.93	68.09	22
23	67.64	67.48	67.92	67.51	67.79	68.16	68.15	68.00	67.75	67.84	67.96	68.07	23
24	67.57	67.48	68.28	67.51	67.79	68.14	68.15	67.98	67.78	67.85	67.99	68.14	24
25	67.55	67.47	68.91	67.52	67.74	68.14	68.10	67.98	67.77	67.86	67.99	68.15	25
26	67.58	67.48	70.79	67.52	67.68	68.19	68.02	67.94	67.81	67.87	68.03	68.25	26
27	67.60	67.51	69.81	67.55	67.65	68.28	68.03	67.98	67.85	67.89	67.96	68.25	27
28	67.56	67.50	70.74	69.03	67.61	68.31	68.03	67.97	67.86	67.89	68.01	68.22	28
29	67.56	67.48	71.95	70.75	67.61	68.44	68.04	68.00	67.85	67.89	67.98	68.23	29
30	67.58	67.49	69.05	68.75		68.52	68.07	67.91	67.83	67.89	67.98	68.21	30
31	67.61		68.38	68.21		68.48		67.89		67.88	67.92		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-16-71	2230	70.45	2- 7-72	0200	70.60						
12-29-71	0100	73.97									
1-29-72	0200	71.90									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USCGS

Station located 0.1 mile downstream from Claus Road Bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941, records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles. There are no upstream impairments.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B04120	TULOUMNE RIVER AT MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	41.11	41.48	41.51	41.68	41.68	41.88	41.53	41.20	40.99	40.94	40.98	40.93	1
2	41.26	41.53	41.51	41.56	42.10	41.94	41.49	41.19	41.00	40.95	40.95	40.94	2
3	41.44	41.61	41.53	41.51	42.18	41.71	41.37	41.10	40.99	40.96	40.95	40.94	3
4	41.45	41.64	41.52	41.82	42.11	41.60	41.33	41.06	41.00	40.97	40.94	41.00	4
5	41.48	41.65	41.54	41.88	42.06	41.60	41.34	41.06	40.99	40.96	40.95	40.99	5
6	41.47	41.56	41.54	41.84	41.81	41.60	41.35	41.06	40.98	40.94	40.97	40.95	6
7	41.50	41.51	41.54	41.82	41.80	41.60	41.36	41.06	40.96	40.94	40.99	40.96	7
8	41.59	41.50	41.56	41.78	42.02	41.61	41.33	41.06	40.98	40.95	40.94	40.99	8
9	41.61	41.50	41.56	41.61	42.06	41.61	41.31	41.06	40.98	40.96	40.94	40.99	9
10	41.59	41.50	41.70	41.48	41.87	41.61	41.29	41.05	40.99	40.97	40.93	40.98	10
11	41.61	41.51	41.81	41.73	41.86	41.60	41.30	41.04	41.02	40.96	40.97	40.98	11
12	41.63	41.52	41.83	41.67	41.79	41.61	41.30	41.07	41.04	40.95	40.94	41.01	12
13	41.63	41.53	41.83	41.59	41.54	41.63	41.31	41.07	41.01	40.95	40.94	41.01	13
14	41.68	41.52	41.84	41.63	41.59	41.63	41.29	41.05	41.01	40.94	41.01	41.02	14
15	41.81	41.52	41.92	41.57	41.77	41.55	41.27	41.05	41.00	40.94	40.98	41.00	15
16	42.41	41.51	41.99	41.47	41.82	41.52	41.26	41.02	41.01	40.96	40.97	41.00	16
17	42.02	41.51	42.00	41.45	41.82	41.52	41.25	41.01	41.02	40.97	40.98	40.99	17
18	41.74	41.50	41.99	41.59	41.81	41.52	41.22	41.04	41.00	40.95	40.98	41.03	18
19	41.72	41.51	41.97	41.66	41.78	41.53	41.29	41.05	40.99	40.94	40.99	41.01	19
20	41.73	41.51	41.86	41.59	41.58	41.55	41.29	41.05	40.96	40.94	40.96	41.01	2D
21	41.45	41.51	41.62	41.55	41.53	41.54	41.31	41.04	40.95	40.93	41.00	41.00	21
22	41.26	41.51	41.51	41.51	41.53	41.54	41.32	41.07	40.96	40.95	40.96	41.01	22
23	41.24	41.51	41.48	41.45	41.70	41.54	41.33	41.04	40.95	40.96	40.94	41.01	23
24	41.45	41.51	41.50	41.45	41.86	41.53	41.38	41.02	40.97	41.00	40.95	41.04	24
25	41.40	41.51	41.60	41.49	41.88	41.53	41.31	41.01	40.96	40.96	40.96	41.02	25
26	41.39	41.51	41.75	41.54	41.87	41.52	41.26	40.99	41.00	40.96	40.98	41.03	26
27	41.54	41.51	41.75	41.53	41.61	41.51	41.19	41.02	40.99	40.96	40.99	41.03	27
28	41.62	41.51	41.74	41.60	41.49	41.51	41.18	41.02	40.95	40.94	40.98	41.03	28
29	41.63	41.52	42.16	41.87	41.76	41.52	41.17	41.03	40.93	40.95	40.98	41.03	29
30	41.63	41.52	41.92	41.65		41.53	41.20	41.01	40.94	40.98	40.96	41.05	30
31	41.64		41.86	41.57		41.54		41.01		40.99	40.94		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-16-71	1230	42.75									
12-29-71	1300	42.26									
2- 2-72	1330	42.34									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	OF RECORD CFS	OF RECORD GAGE HT	OF RECORD DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 37 38	120 59 20	SW33 3S 9E	57000	69.19	12-9-50	JAN 95-DEC 96 MAR 40-DATE	1878-1884 1891-1894	1940		0.00	USCGS

Station located at U. S. Highway 99 Bridge. Records furnished by U. S. Geological Survey. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,884 square miles. This station equipped with DWR radio telemeter. Flows regulated by upstream reservoirs and diversions.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	22.97	24.15	24.07	24.74	24.15	24.62	24.16	23.23	22.70	22.45	22.51	22.38	1
2	23.04	23.94	24.06	24.29	24.95	24.97	24.07	23.20	22.72	22.40	22.41	22.44	2
3	23.49	24.21	24.10	24.14	25.65	24.56	23.66	23.08	22.71	22.50	22.35	22.45	3
4	23.65	24.32	24.13	24.30	25.63	24.16	23.56	22.92	22.70	22.49	22.32	22.52	4
5	23.72	24.37	24.10	24.99	25.47	24.07	23.53	22.89	22.70	22.40	22.35	22.69	5
6	23.79	24.30	24.15	24.90	25.14	24.05	23.65	22.87	22.67	22.42	22.37	22.59	6
7	23.76	24.08	24.14	24.82	24.75	24.03	23.65	22.90	22.60	22.38	22.42	22.57	7
8	23.99	24.05	24.16	24.78	24.93	24.09	23.52	22.90	22.53	22.38	22.44	22.56	8
9	24.17	24.03	24.18	24.52	25.41	24.09	23.47	22.90	22.54	22.45	22.40	22.58	9
10	24.17	24.03	24.33	24.08	25.21	24.09	23.45	22.89	22.57	22.48	22.33	22.56	10
11	24.20	24.03	24.80	24.14	24.79	24.09	23.42	22.84	22.64	22.45	22.37	22.57	11
12	24.36E	24.11	24.96	24.60	24.89	24.09	23.46	22.80	22.66	22.43	22.48	22.58	12
13	24.38E	24.12	24.99	24.21	24.33	24.15	23.50	22.80	22.66	22.40	22.37	22.70	13
14	24.45E	24.11	25.00	24.30	24.03	24.12	23.41	22.73	22.59	22.40	22.42	22.73	14
15	24.75E	24.09	25.15	24.20	24.50	24.08	23.37	22.80	22.58	22.36	22.45	22.67	15
16	26.44E	24.06	25.40	24.04	24.71	24.01	23.36	22.77	22.57	22.39	22.43	22.62	16
17	26.20E	24.05	25.51	23.89	24.72	24.04	23.33	22.74	22.63	22.39	22.45	22.60	17
18	25.56E	24.03	25.50	23.94	24.70	24.07	23.27	22.74	22.61	22.38	22.45	22.70	18
19	24.93E	24.05	25.45	24.27	24.66	24.11	23.29	22.79	22.59	22.37	22.55	22.73	19
20	24.74E	24.05	25.28	24.23	24.32	24.19	23.23	22.81	22.54	22.38	22.52	22.78	20
21	24.36	24.05	24.76	24.10	24.07	24.12	23.25	22.82	22.50	22.38	22.47	22.73	21
22	23.66	24.05	24.27	24.07	23.85	24.12	23.25	22.83	22.52	22.45	22.41	22.74	22
23	23.41	24.06	24.08	23.87	24.07	24.12	23.27	22.82	22.52	22.47	22.36	22.76	23
24	23.70	24.06	24.04	23.83	24.56	24.12	23.28	22.77	22.50	22.54	22.37	22.81	24
25	23.78	24.05	24.32	23.81	24.74	24.12	23.30	22.72	22.47	22.51	22.40	22.81	25
26	23.70	24.05	24.47	24.02	24.78	24.09	23.23	22.69	22.46	22.48	22.43	22.79	26
27	23.86	24.05	24.78	24.02	24.51	24.05	23.20	22.74	22.53	22.46	22.53	22.81	27
28	24.24	24.06	24.50	24.05	23.93	24.05	23.16	22.75	22.47	22.45	22.51	22.78	28
29	24.33	24.09	25.36	24.66	24.05	24.07	23.15	22.80	22.46	22.41	22.45	22.78	29
30	24.35	24.09	25.27	24.47		24.12	23.20	22.74	22.46	22.43	22.43	22.79	30
31	24.36		25.01	24.16		24.15		22.74		22.51	22.42		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-16-71		27.26E									
12-17-71	1800	25.52									
2- 3-72	2200	25.92									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	1930-DATE			1959	0.00	USED
				43.15a	12- 9-50			1960		0.00	USCGS
			37900b	42.86	1-27-69			1960		3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.

a Reflects present datum.
b Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	14.42	14.89	14.78	16.50	16.40	14.68E	14.43	13.72	12.97	12.79	12.91	13.02	1
2	14.50	14.66	14.78	16.15	16.62	14.71E	14.67	13.65	12.85	12.59	12.82	12.95	2
3	14.75	14.72	14.81	15.95	17.05	14.61	14.44	13.46	12.88	12.69	12.65	12.95	3
4	14.86	14.73	14.86	15.87	17.11	14.44E	14.17	13.35	13.00	12.61	12.62	13.03	4
5	14.89	14.69	14.86	16.23	17.04	14.28E	14.06	13.28	13.04	12.66	12.69	13.27	5
6	15.01	14.69	14.90	16.27	16.98	14.14E	14.29	13.38	13.05	12.73	12.88	13.26	6
7	15.07	14.58	14.91	16.38	16.76	14.17E	14.30	13.58	12.98	12.66	12.98	13.19	7
8	15.18	14.59	14.88	16.46	16.81	14.14E	14.18	13.60	12.93	12.63	12.96	13.31	8
9	15.45	14.62	14.90	16.43	17.13	14.15E	14.17	13.65	12.97	12.63	12.81	13.81	9
10	15.75	14.67	14.95	16.25	17.17	14.48	14.20	13.67	13.04	12.66	12.77	14.42	10
11	15.90	14.67	15.19	16.19	17.02	14.86	13.94	13.68	13.17	12.71	12.76	14.85	11
12	15.86	14.72	15.28	16.45	16.91	14.84E	14.11	13.63	13.33	12.68	12.87	15.00	12
13	15.77	14.72	15.30	16.32	16.42	14.72E	14.18	13.46	13.23	12.66	12.94	15.23	13
14	15.50	14.73	15.29	16.30	16.01	14.64E	13.99	13.31	13.14	12.68	13.02	15.38	14
15	15.67	14.74	15.34	16.15	15.98	14.58E	14.08	13.21	13.02	12.60	13.00	15.43	15
16	16.16	14.76	15.51	16.09	16.12	14.61E	14.12	13.24	12.90	12.68	12.97	15.50	16
17	16.74	14.73	15.60	16.04	16.08	14.63E	14.10	13.37	12.90	12.75	13.07	15.60	17
18	16.09	14.72	15.62	16.11	16.01	14.60E	14.06	13.40	12.89	12.62	13.05	15.75	18
19	15.48	14.70	15.61	16.35	15.92	14.58E	14.00	13.30	12.89	12.56	13.09	15.86	19
20	15.33	14.70	15.54	16.50	15.68	14.63E	13.73	13.27	12.88	12.46	13.24	15.86	20
21	15.16	14.75	15.30	16.52	15.36	14.64E	13.57	13.35	12.83	12.54	13.17	15.83	21
22	14.76	14.80	15.02	16.52	15.13	14.77	13.51	13.49	12.82	12.65	13.02	15.87	22
23	14.56	14.85	14.90	16.43	15.03	14.83	13.64	13.49	12.80	12.77	12.92	15.90	23
24	14.70	14.82	14.91	16.40	15.08	14.60	13.74	13.30	12.75	12.88	12.90	15.94	24
25	14.80	14.79	15.28	16.38	15.19	14.56	13.68	13.25	12.99	12.90	12.92	15.76	25
26	14.73	14.79	15.81	16.42	15.10	14.50	13.60	13.16	12.99	12.83	12.99	15.57	26
27	14.78	14.79	16.14	16.44	14.95	14.32	13.57	13.21	12.93	12.71	13.07	15.63	27
28	14.95	14.78	16.20	16.45	14.70	14.19	13.61	13.21	12.91	12.73	13.20	15.62	28
29	14.95	14.78	16.59	16.63	14.54	14.22	13.61	13.19	12.81	12.81	13.22	15.50	29
30	14.95	14.79	16.80	16.70		14.34	13.71	13.05	12.79	12.79	13.11	15.32	30
31	14.93		16.68	16.49		14.30		13.02		12.96	12.91		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-17-71	0600	16.95	2-10-72	0500	17.25						
12-30-71	0215	16.93									
1-29-72	2145	16.80									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 38 28	121 13 37	SW29 3S 7E	45,550	36.87	2-28-69	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED
						OCT 65-DATE	APR 52-SEP 65	1959		0.00	USCGS
								1959		3.41	USED

Station located at State Highway 132 Bridge, 13 miles west of Modesto, 2 miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions. Drainage area is 12,400 square miles.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B03175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.02	1.68	3.37	5.96	3.39	2.24	1.51	1.30	1.28	1.25	1.25	1.18	1
2	2.02	2.09	3.41	5.95	3.38	2.26	1.55	1.27	1.28	1.24	1.30	1.20	2
3	2.01	2.15	3.38	5.94	3.40	2.40	1.50	1.27	1.29	1.27	1.25	1.18	3
4	2.01	2.15	3.38	5.93	3.40	2.30	1.46	1.28	1.29	1.28	1.27	1.25	4
5	2.00	2.17	3.38	5.92	3.72	2.23	1.48	1.31	1.26	1.28	1.26	1.27	5
6	1.95	2.24	3.38	5.90	3.69	2.26	1.55	1.28	1.26	1.26	1.30	1.23	6
7	1.95	2.26	3.41	5.89	3.50	2.19	1.48	1.30	1.32	1.32	1.27	1.21	7
8	1.95	2.29	3.41	5.88	3.58	2.11	1.44	1.27	1.31	1.30	1.24	1.20	8
9	1.93	2.49	3.41	5.86	4.27	2.12	1.43	1.26	1.29	1.26	1.25	1.22	9
10	1.93	2.43	3.42	5.83	5.15	2.09	1.46	1.26	1.28	1.28	1.27	1.20	10
11	1.94	2.46	3.42	5.79	4.85	1.95	1.45	1.26	1.31	1.28	1.25	1.22	11
12	2.10	2.28	3.45	5.77	4.15	1.92	1.40	1.26	1.30	1.23	1.27	1.24	12
13	2.61	2.27	3.48	5.12	3.46	1.92	1.36	1.27	1.28	1.20	1.30	1.29	13
14	2.66	2.28	3.67	4.13	3.63	1.92	1.31	1.26	1.27	1.24	1.30	1.34	14
15	2.83	2.27	4.13	4.15	3.74	1.91	1.28	1.28	1.24	1.25	1.33	1.37	15
16	3.19	2.31	4.12	4.14	3.64	1.90	1.29	1.27	1.24	1.30	1.35	1.31	16
17	3.03	2.31	4.13	3.82	3.63	1.88	1.24	1.27	1.33	1.31	1.32	1.28	17
18	2.93	2.56	4.15	3.36	3.61	1.87	1.25	1.27	1.35	1.30	1.31	1.28	18
19	2.84	4.06	4.14	3.34	3.60	1.89	1.26	1.27	1.28	1.27	1.33	1.26	19
20	2.76	4.08	4.14	3.33	3.36	1.90	1.29	1.88	1.24	1.25	1.30	1.24	20
21	2.80	4.08	4.12	3.33	2.76	1.88	1.28	1.87	1.23	1.26	1.28	1.28	21
22	3.11	3.73	4.28	3.34	2.77	1.87	1.37	1.36	1.26	1.29	1.28	1.28	22
23	3.00	3.05	4.27	3.35	2.80	1.87	1.34	1.34	1.26	1.27	1.30	1.30	23
24	2.99	3.26	6.00	3.35	2.80	1.86	1.34	1.52	1.25	1.29	1.28	1.31	24
25	2.70	3.54	6.46	3.35	2.79	1.86	1.33	1.30	1.21	1.30	1.28	1.34	25
26	1.80	3.35	6.10	3.38	2.75	1.86	1.37	1.28	1.20	1.28	1.27	1.41	26
27	1.73	3.36	6.20	3.45	2.48	1.80	1.36	1.35	1.21	1.28	1.24	1.43	27
28	1.72	3.39	6.34	3.65	2.47	1.63	1.27	1.38	1.22	1.27	1.24	1.43	28
29	1.73	3.37	6.06	3.42	2.40	1.57	1.29	1.34	1.21	1.24	1.23	1.47	29
30	1.69	3.37	6.01	3.40		1.53	1.29	1.28	1.27	1.25	1.19	1.38	30
31	1.68		5.99	3.40		1.49		1.28		1.23	1.19		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-28-71	0030	7.02									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 28-DEC 39 APR 40-DATE				117.21	USC&GS

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. This station is equipped with radio telemeter.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B03125	STANISLAUS RIVER AT RIPON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	38.02	36.66	38.41	43.23	38.80	37.42	36.40	36.17	35.98	35.86	35.66	35.60	1
2	38.12	36.56	38.41	43.21	38.77	37.43	36.32	36.07	35.89	35.95	35.69	35.59	2
3	38.32	36.69	38.48	43.21	38.75	37.95	36.46	36.03	35.90	35.87	35.62	35.65	3
4	38.37	36.84	38.46	43.18	38.77	37.81	36.40	36.03	35.96	36.03	35.75	35.69	4
5	38.49	36.85	38.43	43.18	38.82	37.41	36.49	36.09	35.95	35.87	35.70	35.67	5
6	38.42	36.86	38.43	43.17	39.27	37.48	36.61	35.99	35.83	35.92	35.79	35.83	6
7	38.25	36.91	38.44	43.17	39.15	37.62	36.64	36.06	35.81	35.91	35.78	35.86	7
8	38.34	36.93	38.48	43.15	38.91	37.38	36.52	36.02	36.07	35.89	35.84	35.70	8
9	38.23	36.97	38.52	43.13	39.11	37.36	36.57	35.98	35.98	35.92	35.68	35.62	9
10	38.24	37.14	38.49	43.11	40.15	37.36	36.70	35.97	36.01	35.92	35.57	35.66	10
11	38.11	37.15	38.52	43.09	41.30	37.29	36.56	36.04	35.92	35.79	35.55	35.66	11
12	38.08	37.22	38.55	43.06	40.87	37.28	36.57	35.99	35.85	35.73	35.55	35.64	12
13	38.45	37.11	38.60	43.00	39.89	37.16	36.37	35.98	35.79	35.68	35.57	35.62	13
14	39.05	37.02	38.61	41.73	39.07	37.05	36.30	36.03	35.83	35.73	35.83	35.66	14
15	39.72	36.97	38.93	40.52	39.18	37.02	36.52	36.10	35.78	35.63	35.76	35.70	15
16	40.21	36.94	39.48	40.37	39.24	36.96	36.48	36.03	35.83	35.84	35.66	35.73	16
17	40.42	36.95	39.58	40.29	39.11	37.10	36.28	35.99	35.99	35.79	35.66	35.71	17
18	39.39	36.94	39.62	39.73	39.07	37.10	36.17	36.03	35.94	35.78	35.65	35.75	18
19	38.60	37.26	39.65	39.17	39.05	37.11	36.08	35.97	35.92	35.75	35.68	35.76	19
20	38.38	38.96	39.66	39.03	39.01	37.20	36.11	35.98	35.94	35.91	35.69	35.73	20
21	38.19	39.31	39.67	38.95	38.65	36.96	36.10	36.23	36.01	35.82	35.81	35.75	21
22	37.99	39.42	39.77	38.91	38.02	36.74	36.30	36.59	35.80	35.80	35.80	35.74	22
23	38.98	38.94	40.10	38.88	37.91	36.92	36.20	36.28	35.81	35.84	35.74	35.83	23
24	39.98	38.13	40.41	38.85	37.94	36.76	36.24	36.15	35.88	35.87	35.67	35.86	24
25	40.00	38.15	42.75	38.82	37.87	36.82	36.19	36.11	35.89	35.82	35.72	36.17	25
26	39.79	38.43	44.22	38.82	37.93	36.68	36.15	36.06	35.90	35.76	35.83	36.04	26
27	39.06	38.40	43.63	38.84	37.78	36.69	36.12	36.01	35.82	35.71	35.75	36.03	27
28	38.82	38.44	44.10	39.04	37.54	36.75	36.17	35.98	35.93	35.66	35.64	36.01	28
29	38.67	38.46	43.98	39.09	37.55	36.63	36.21	36.13	35.89	35.64	35.70	36.15	29
30	37.40	38.43	43.39	38.87		36.77	36.07	36.05	35.86	35.66	35.75	36.18	30
31	36.83		43.27	38.82		36.62		35.93		35.69	35.57		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-28-71	2000	44.61									
1-11-72	1230	43.10									
2-12-72	0030	41.45									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 43 50	121 06 35	SE29 2S 8E	62500	63.25	12-24-55	APR 40-DATE		1940		0.00	USGS

Station located 15 feet downstream from the Southern Pacific Railroad Bridge, 1.0 mile southeast of Ripon. Records furnished by U. S. Geological Survey. Flow records are published in U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,075 square miles.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	29.24	27.66	29.37	33.99	29.75	28.29	27.42	26.95	26.69	26.51	26.50	26.35	1
2	29.28	27.52	29.39	33.96	29.73	28.21	27.27	26.76	26.74	26.58	26.50	26.40	2
3	29.51	27.55	29.44	33.95	29.70	28.64	27.33	26.70	26.83	26.48	26.52	26.60	3
4	29.63	27.73	29.44	33.93	29.71	28.76	27.24	26.80	26.79	26.70	26.54	26.66	4
5	29.78	27.75	29.39	33.92	29.77	28.33	27.37	26.91	26.87	26.75	26.46	26.62	5
6	29.73	27.74	29.39	33.92	30.09	28.35	27.60	26.82	26.56	26.70	26.55	26.70	6
7	29.45	27.77	29.39	33.91	30.17	28.48	27.63	26.93	26.58	26.82	26.52	26.80	7
8	29.56	27.79	29.42	33.90	29.89	28.44	27.57	26.80	26.87	26.75	26.84	26.65	8
9	29.41	27.82	29.48	33.87	29.95	28.37	27.61	26.83	26.76	26.82	26.42	26.43	9
10	29.47	27.96	29.45	33.85	30.78	28.38	27.69	26.70	26.78	26.70	26.40	26.72	10
11	29.41	28.03	29.46	33.83	32.00	28.25	27.58	26.70	26.87	26.49	26.42	26.65	11
12	29.44	28.07	29.49	33.81	31.92	28.25	27.41	26.84	26.72	26.48	26.37	26.62	12
13	29.78	28.05	29.56	33.75	30.99	28.14	27.27	26.65	26.67	26.46	26.48	26.50	13
14	30.33	27.92	29.57	32.94	30.16	28.03	27.19	26.70	26.64	26.43	26.63	26.47	14
15	30.87	27.87	29.74	31.56	30.07	27.85	27.40	26.67	26.52	26.27	26.84	26.62	15
16	31.19	27.83	30.34	31.34	30.19	27.77	27.39	26.71	26.50	26.58	26.56	26.73	16
17	31.42	27.83	30.49	31.23	30.06	27.87	27.26	26.80	26.68	26.78	26.48	26.67	17
18	30.62	27.81	30.55	30.86	30.01	27.97	27.06	26.74	26.85	26.85	26.54	26.59	18
19	29.77	27.99	30.59	30.24	29.96	27.98	26.86	26.68	26.72	26.64	26.65	26.67	19
20	29.42	29.48	30.61	30.07	29.93	28.10	26.83	26.64	26.50	26.69	26.70	26.62	20
21	29.28	30.13	30.63	29.95	29.72	27.86	26.82	26.93	26.57	26.68	26.50	26.60	21
22	29.00	30.30	30.69	29.90	29.07	27.68	27.04	27.35	26.45	26.69	26.59	26.73	22
23	29.68	30.10	30.96	29.87	28.86	27.78	27.00	27.17	26.54	26.89	26.52	26.75	23
24	30.82	29.18	31.12	29.84	28.81	27.86	27.04	26.89	26.62	26.78	26.42	26.75	24
25	30.92	29.05	33.05	29.81	28.76	27.98	26.91	26.85	26.80	26.65	26.53	27.02	25
26	30.83	29.35	34.59	29.78	28.80	27.77	26.86	26.67	26.70	26.54	26.53	26.98	26
27	30.19	29.35	34.32	29.80	28.70	27.59	26.77	26.67	26.47	26.39	26.60	26.96	27
28	29.88	29.38	34.52	29.90	28.47	27.66	26.83	26.78	26.45	26.46	26.47	27.12	28
29	29.73	29.43	34.73	30.08	28.44	27.64	26.98	26.90	26.62	26.49	26.37	27.11	29
30	28.74	29.40	34.15	29.85		27.63	26.92	26.78	26.45	26.52	26.48	27.13	30
31	27.93		34.02	29.78		27.60		26.95		26.59	26.32		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-29-71	0030	35.07									
2-12-72	0500	32.26									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 41 57	121 10 08	SW 2 3S 7E		50.5	12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950	1962	-0.63	USC&GS
								1963	1969	0.37	USC&GS
								1970		0.00	USC&GS

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates Road Junction, 3.7 miles southwest of Ripon. It is possible that backwater from San Joaquin River could affect the stage-discharge relationship. Flow regulated by upstream reservoirs and diversions. Drainage area is 1,094 square miles.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1972	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	10.62	10.66	11.01	13.41	12.42	10.40	10.10	9.45	8.75	8.57	8.63	8.62	1
2	10.70	10.40	10.99	13.13	12.54	10.49	10.33	9.25	8.65	8.42	8.56	8.63	2
3	10.92	10.37	11.01	12.99	12.97	10.56	10.19	9.25	8.55	8.47	8.38	8.66	3
4	11.12	10.44	11.04	12.88	13.06	10.49	9.93	9.18	8.68	8.38	8.33	8.76	4
5	11.10	10.46	11.04	13.13	13.02	10.26	9.85	9.07	8.85	8.45	8.39	9.01	5
6	11.25	10.48	11.06	13.16	13.00	10.14	10.10	9.11	8.81	8.48	8.55	9.06	6
7	11.23	10.39	11.06	13.20	12.87	10.17	10.18	9.32	8.69	8.45	8.72	8.95	7
8	11.33	10.39	11.05	13.27	12.82	10.16	10.12	9.38	8.69	8.42	8.66	9.03	8
9	11.52	10.43	11.07	13.25	13.07	10.18	10.05	9.42	8.73	8.35	8.59	9.38	9
10	11.84	10.50	11.10	13.12	13.25	10.41	10.17	9.42	8.86	8.46	8.44	9.99	10
11	11.97	10.56	11.30	13.06	13.37	10.76	9.87	9.40	8.91	8.46	8.41	10.48	11
12	11.94	10.60	11.42	13.23	13.38	10.72	9.89	9.38	9.10	8.44	8.50	10.61	12
13	12.02	10.61	11.46	13.16	12.86	10.59	9.99	9.24	8.97	8.46	8.55	10.78	13
14	11.82	10.58	11.44	13.07	12.33	10.43	9.81	9.09	8.83	8.42	8.63	10.99	14
15	12.08	10.56	11.47	12.65	12.17	10.34	9.87	8.96	8.72	8.30	8.69	11.02	15
16	12.50	10.56	11.72	12.48	12.31	10.43	9.92	8.92	8.65	8.25	8.64	11.12	16
17	13.28	10.56	11.89	12.40	12.29	10.37	9.89	9.03	8.64	8.45	8.75	11.26	17
18	13.30	10.56	11.94	12.39	12.21	10.35	9.76	9.15	8.72	8.38	8.73	11.45	18
19	13.18	10.55	11.95	12.43	12.12	10.33	9.70	9.05	8.67	8.32	8.77	11.53	19
20	12.20	10.73	11.93	12.53	11.96	10.37	9.42	8.97	8.69	8.23	8.89	11.54	20
21	11.41	11.06	11.78	12.53	11.56	10.37	9.23	9.07	8.68	8.29	8.94	11.53	21
22	11.10	11.19	11.53	12.50	11.36	10.45	9.17	9.25	8.62	8.39	8.76	11.61	22
23	10.77	11.28	11.46	12.44	11.11	10.65	9.31	9.30	8.54	8.58	8.66	11.64	23
24	11.11	11.08	11.51	12.40	11.15	10.54	9.43	9.15	8.50	8.67	8.54	11.67	24
25	11.32	10.95	12.03	12.38	11.25	10.50	9.32	9.05	8.69	8.65	8.55	11.57	25
26	11.23	10.97	12.84	12.42	11.17	10.37	9.30	8.97	8.83	8.59	8.64	11.37	26
27	11.17	11.02	13.17	12.43	11.05	10.18	9.35	8.96	8.72	8.42	8.77	11.38	27
28	11.15	11.01	13.21	12.45	10.61	9.97	9.38	8.90	8.66	8.40	8.88	11.51	28
29	11.12	11.01	13.54	12.63	10.31	9.99	9.26	8.84	8.61	8.55	8.87	11.40	29
30	11.02	11.02	13.70	12.74		10.11	9.26	8.92	8.51	8.52	8.79	11.20	30
31	10.76		13.55	12.54		10.10		8.81		8.66	8.62		31

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT
10-17-71	1100	13.37									
12-30-71	0600	13.78									
2-12-72	0800	13.44									

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 40 34	121 15 55		79000	27.75	12- 9-50	JUL 22-DEC 23		1931	1959	8.4	USED
				32.81a	12- 9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 28		1931	1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs. as water was bypassing the station through levee breaks upstream from station.

TABLE B-10

CORRECTIONS AND REVISIONS
TO
PREVIOUSLY PUBLISHED REPORTS

This table shows corrections and revisions to surface water measurement data of the Bulletin No. 130 series and Bulletin No. 23 series not previously published.

For other corrections and revisions to previously published reports dating back to 1924, refer to Page 160, Table B-11, Bulletin No. 130-66, Volume IV.

TABLE B-10

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			ITEM	CHANGE	
PAGE	MILE & BANK	NAME		FROM	TO
		Bulletin No. 23-58 Surface Water Flow for 1958			
132		Table 149 San Joaquin River at Whitehouse	July acre-feet Water Year Total	247300 1292000	24730 1069000
		Bulletin No. 130-63 Hydrologic Data 1963 Volume IV, San Joaquin Valley			
B-19		Table B-9 Miami Creek near Oakhurst	Maximum Discharge 1963 Water Year	1140E	804
			Maximum Discharge of record	1140E	804
B-29		Table B-19 Bear Creek near Cathay	Maximum Discharge 1963 Water Year — flow	3850E	4170E
			gage ht.	9.98	10.07
			Maximum Discharge of record — flow	3850E	4170E
			gage ht.	9.98	10.07
B-98	8 (12.00-13.75)	Table B-87 Tranquillity Irrigation District	Diversions — Oct.	204	204
			Nov.		
			Dec.		
			Jan.		52
			Feb.	1777	2005
			March	4066	4112
			April		383
			May		2291
			June		7200
			July	557	7454
			Aug.	6306	6659
			Sept.	1414	1414
			Total	14324	31774
		Bulletin No. 130-64 Hydrologic Data 1964 Volume IV, San Joaquin Valley			
68		Table B-4 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
78		Table B-4 Bear Creek near Catheys Valley	Maximum Discharge of record — flow	3850E	4170E
			gage ht.	9.98	10.07
		Bulletin No. 130-65 Hydrologic Data 1965 Volume IV, San Joaquin Valley			
61		Table B-5 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
72		Table B-5 Bear Creek near Catheys Valley	Maximum Discharge of record — flow	4166E	4170E
			gage ht.	9.97	10.07
			date	1-7-65	2-1-63
82		Table B-5 Orestimba Creek near Crows Landing	Daily Mean Discharge Jan. 8	0.0	B NR
			9	0.0	A NR
			10	0.0	C NR
			11	0.0	K NR
			12	0.0	W NR
			13	0.0	A NR
			14	0.0	T NR
			15	0.0	E NR
			16	0.0	R NR
			17	0.0	NR
115	112.55R	Table B-7 Diversions - San Joaquin River	L. A. Thompson	Delete Entire Line	
117	233.63L	Table B-7 United Packing Company	Diversions — Total	omitted in 1965	700
		Bulletin No. 130-66 Hydrologic Data 1966 Volume IV, San Joaquin Valley			
76		Table B-4 Bear Creek near Catheys Valley	Maximum Discharge of record — flow	4166E	4170E
			gage ht.	9.97	10.07
			date	1-7-65	2-1-63
78		Table B-4 Burns Creek at Hornitos	Maximum Discharge 1966 Water Year	1330E	2020E

TABLE B-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			ITEM	CHANGE	
PAGE	MILE & BANK	NAME		FROM	TO
86		Table B-4 Merced River at Cressey	Minimum discharge Month 1966 Water Year	7	8
130		Table B-7 Turlock Irrigation District	Total acre-feet diverted - January	18033	1833
			Average cubic feet per second	293	29.8
			Monthly use in percent of seasonal	3.5	0.4
			Total Diversion	516577	500377
			Average cubic feet per second	714	691
133		Table B-9 Exports from Tuolumne River	Total acre-feet Oct.	15655	15696
			Nov.	12685	12721
			Dec.	14987	15023
			Jan.	7812	7851
			Feb.	11913	11946
			March	15566	12607
			April	11060	11106
			May	15208	15260
			June	18388	18438
			July	21398	21462
			Aug.	21312	21379
			Sept.	19498	19552
			Total	185482	183041
		Bulletin No. 130-67 Hydrologic Data 1967 Volume IV, San Joaquin Valley			
122	255.34R	Table B-6 Sycamore Island Stock Ranch 5	Diversions Sept.	40	17
			Total	278	255
		Bulletin No. 130-68 Hydrologic Data 1968 Volume IV, San Joaquin Valley			
104		Table B-5 Laguna Water District	Diversions May		90
			June		110
			July		110
			Aug.		90
			Total		400
107	1.9 L 2.9 L	Table B-5 J. V. Steenstrup Estate	Name	J. V. Steen-strup Estate	John & Robert Bogetti
		Bulletin No. 130-69 Hydrologic Data 1969 Volume IV, San Joaquin Valley			
54		Table B-4 San Joaquin River near Dos Palos	Maximum Discharge Month 1969 Water Year	3	6
			Day	11	16
			Time	2300	0800
			Gage Ht.	10.42	10.38
			Flow	5560	5900
78		Table B-4 Merced River below Snelling	Daily Mean Discharge Jan. 21	946	980
			Monthly Mean	189	190
			Monthly acre-feet	11620	11680
87		Table B-4 San Joaquin River at Maze Road Bridge	Maximum Discharge	42800	45550
			1969 Water Year Gage Ht.	36.46	36.87
			Time	0400	0300
			Maximum Discharge CFS	42800	45550
			of record Gage Ht.	36.46	36.87
			Last line Feet	37.00	38.31
			Hours	2400	2000
			Date	2-28-69	1-27-69
95		Table B-4 Tule River below Porterville	Maximum Discharge		
			1969 Water Year Discharge		3066
			Gage Ht.		5.35
			Month		2
			Day		26
			Time		1200
130		Table B-12 San Joaquin River at Fremont Ford Bridge	Maximum Discharge CFS	8260b	9180b
			of Record Gage Ht.	68.02	68.05
			Date	2-27-69	2-26-69
			Footnote a	Delete Entire Note	

TABLE B-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			ITEM	CHANGE	
PAGE	MILE & BANK	NAME		FROM	TO
133		Table B-12 San Joaquin River near Newman	Maximum Discharge of Record CFS	33300a	34700a
140		Table B-12 San Joaquin River at Maze Road Bridge	Maximum Discharge of Record Gage Ht.	37.00a	38.31a
			Date	2-28-69	1-27-69
		Bulletin No. 130-70 Hydrologic Data 1970 Volume IV, San Joaquin Valley			
95		Table B-4 Woods-Central Ditch near Porterville	Daily Mean Discharge June 5	132.0	27.5
			Monthly Acre-feet	7604	7397
			Water Year Total	43386	43179
108		Table B-6 Woods-Central Ditch	Diversions June	7604	7397
			Total	43386	43179
117		Table B-11 San Joaquin River at Fremont Ford Bridge	Maximum Discharge of Record CFS	8260b	9180b
			Gage Ht.	68.02	68.05
			Date	2-27-69	2-26-69
			Footnote a	Delete Entire Note	
120		Table B-11 San Joaquin River near Newman	Maximum Discharge of Record CFS	33300a	34700a

APPENDIX C

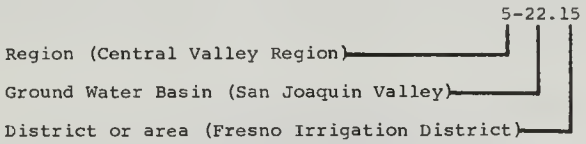
GROUND WATER MEASUREMENTS

The Department of Water Resources cooperates with the U. S. Geological Survey, U. S. Bureau of Reclamation, irrigation and water storage districts, and other local agencies for the systematic observation of ground water levels. The Department obtains approximately 13,000 water level measurements annually on some 7,500 wells in the San Joaquin Valley. The period of record for these wells varies from one to over 40 years. In preparation of the ground water maps most of the well measurements were used. However, because significant trends in water level fluctuations can be indicated by a representative sample, a selection was made of approximately 500 wells for reporting of actual measurements.

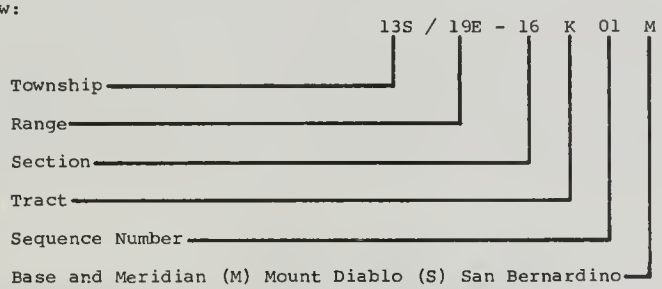
This appendix presents ground water measurement data on these wells for the period October 1, 1971, through September 30, 1972. These wells were selected as being representative of all the wells measured in the area and are designated as selected wells. Their selection is based on a number of factors, including areal distribution, length of water level record, frequency of measurements, conformity with respect to water level fluctuation in the ground water basin or area in a confined aquifer, or in a zone of shallow depth, and availability of a log, mineral analyses, and production record.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13040 of the Water Code. That portion of California covered by this volume comprises the southern portion of Central Valley Region No. 5. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and district or area as follows:


5-22.15
Region (Central Valley Region)
Ground Water Basin (San Joaquin Valley)
District or area (Fresno Irrigation District)

The State Well Numbering System is based on township, range, and section subdivisions of the Public Land Survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:

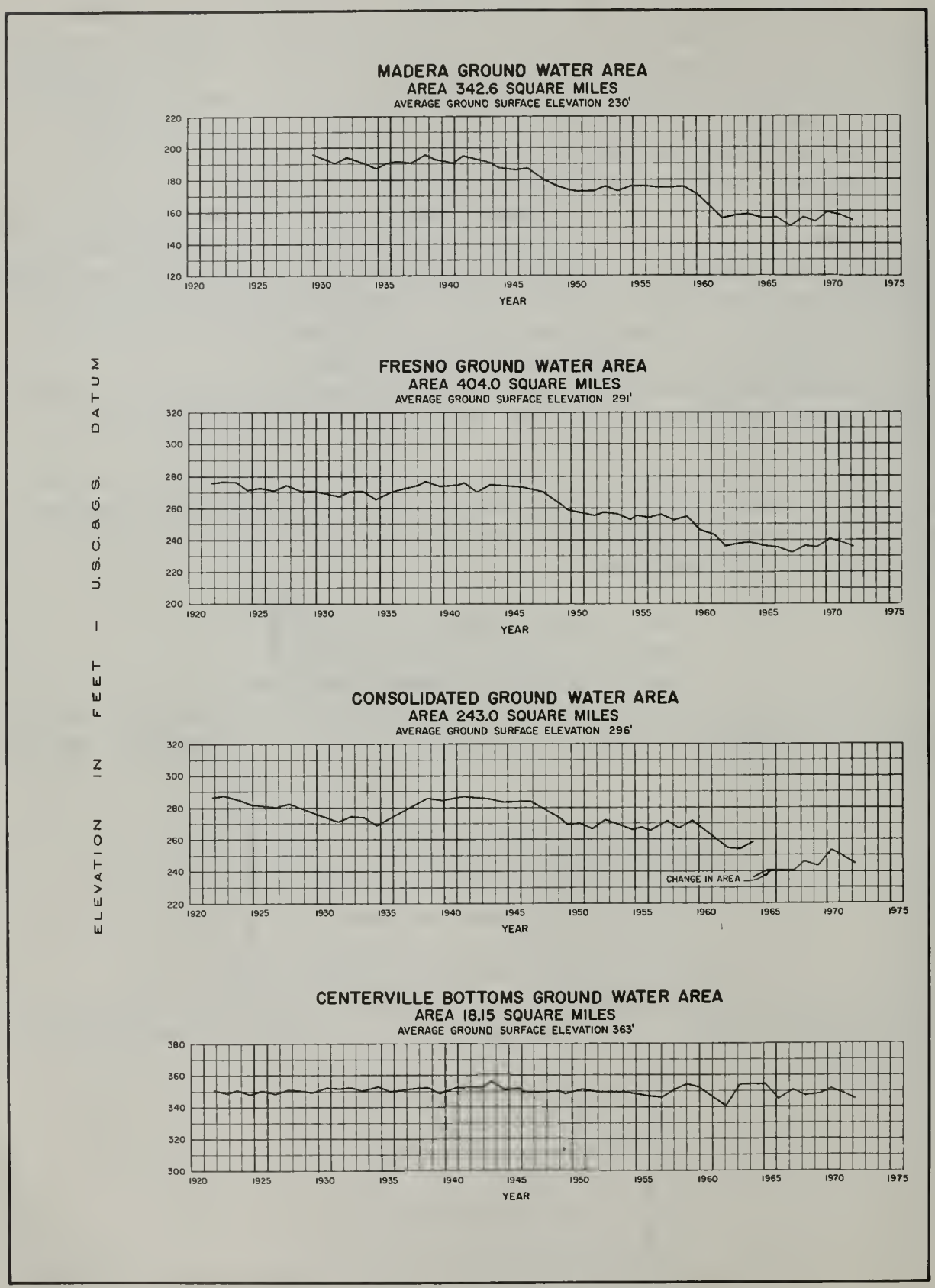


This number identifies and locates the well. In the example, the well is in Township 13 South, Range 19 East, Tract K of Section 16, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as follows:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

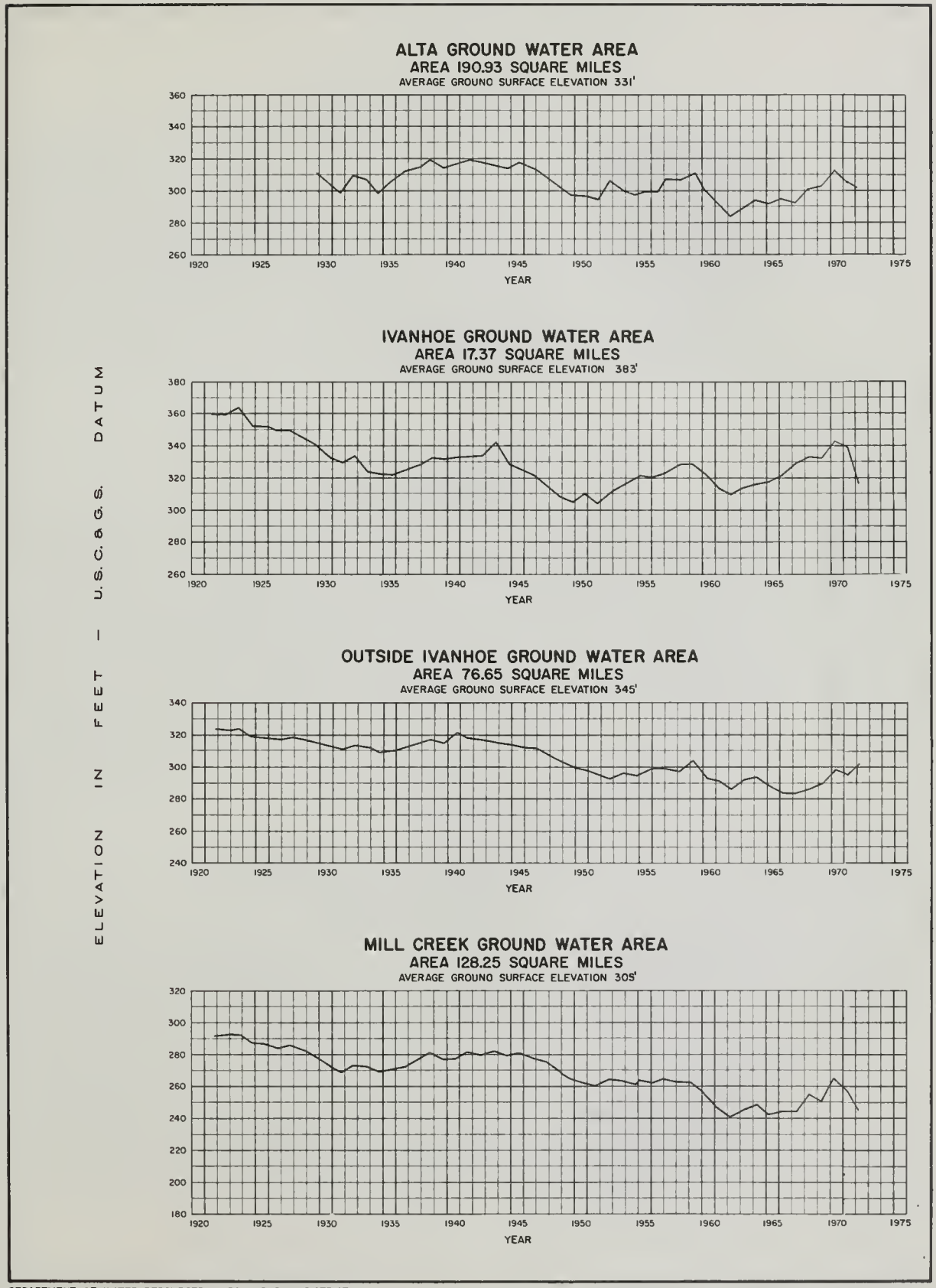
Sequence numbers in a tract are generally assigned in chronological order. The example designates the first well to be assigned a number in Tract K.

Figure C-1. FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



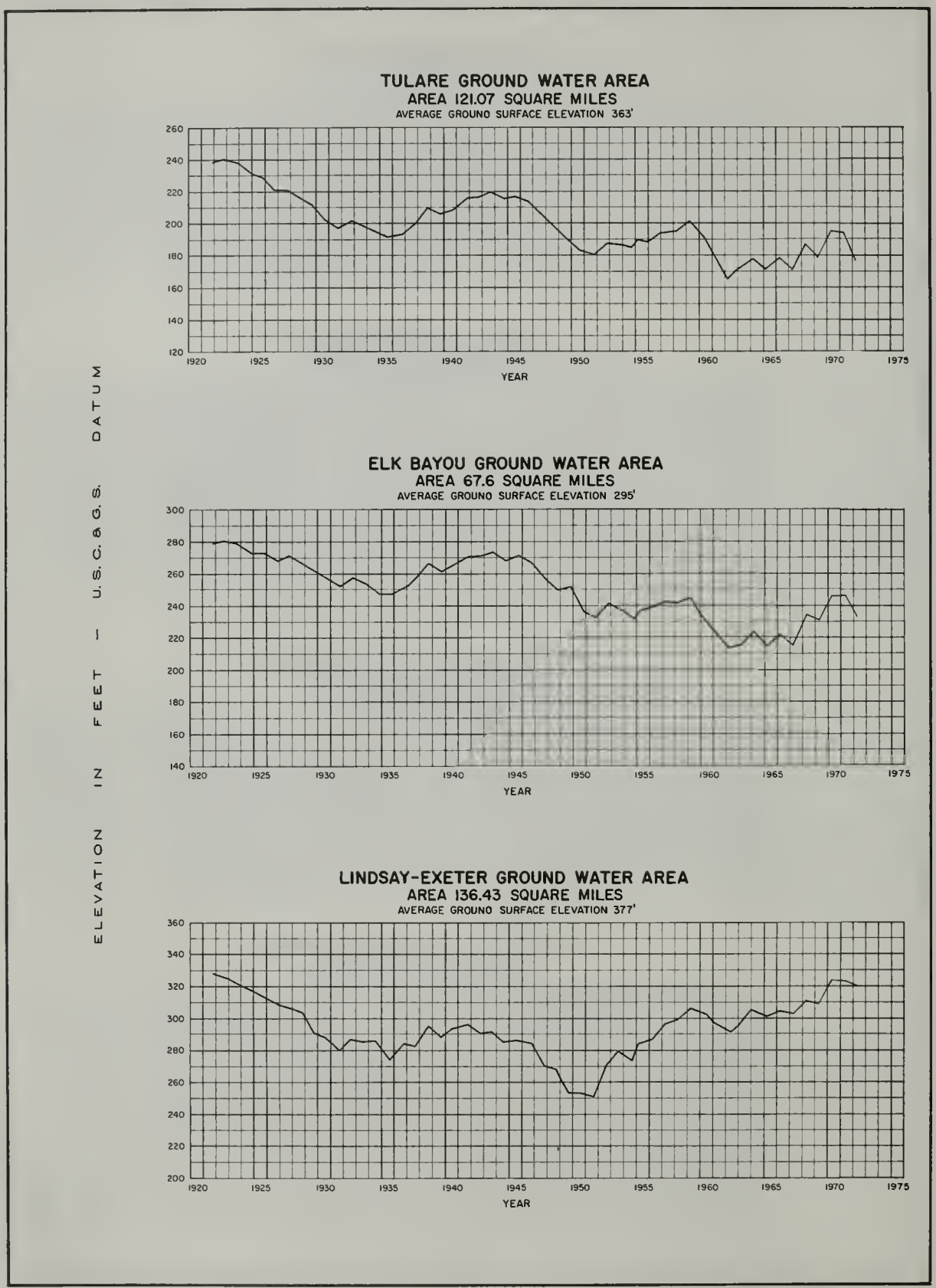
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS


ALTA GROUND WATER AREA
AREA 190.93 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 331'
IVANHOE GROUND WATER AREA
AREA 17.37 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 383'
OUTSIDE IVANHOE GROUND WATER AREA
AREA 76.65 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 345'
MILL CREEK GROUND WATER AREA
AREA 128.25 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 305'
YEAR
ELEVATION IN FEET - U.S.C.&G.S. DATUM

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



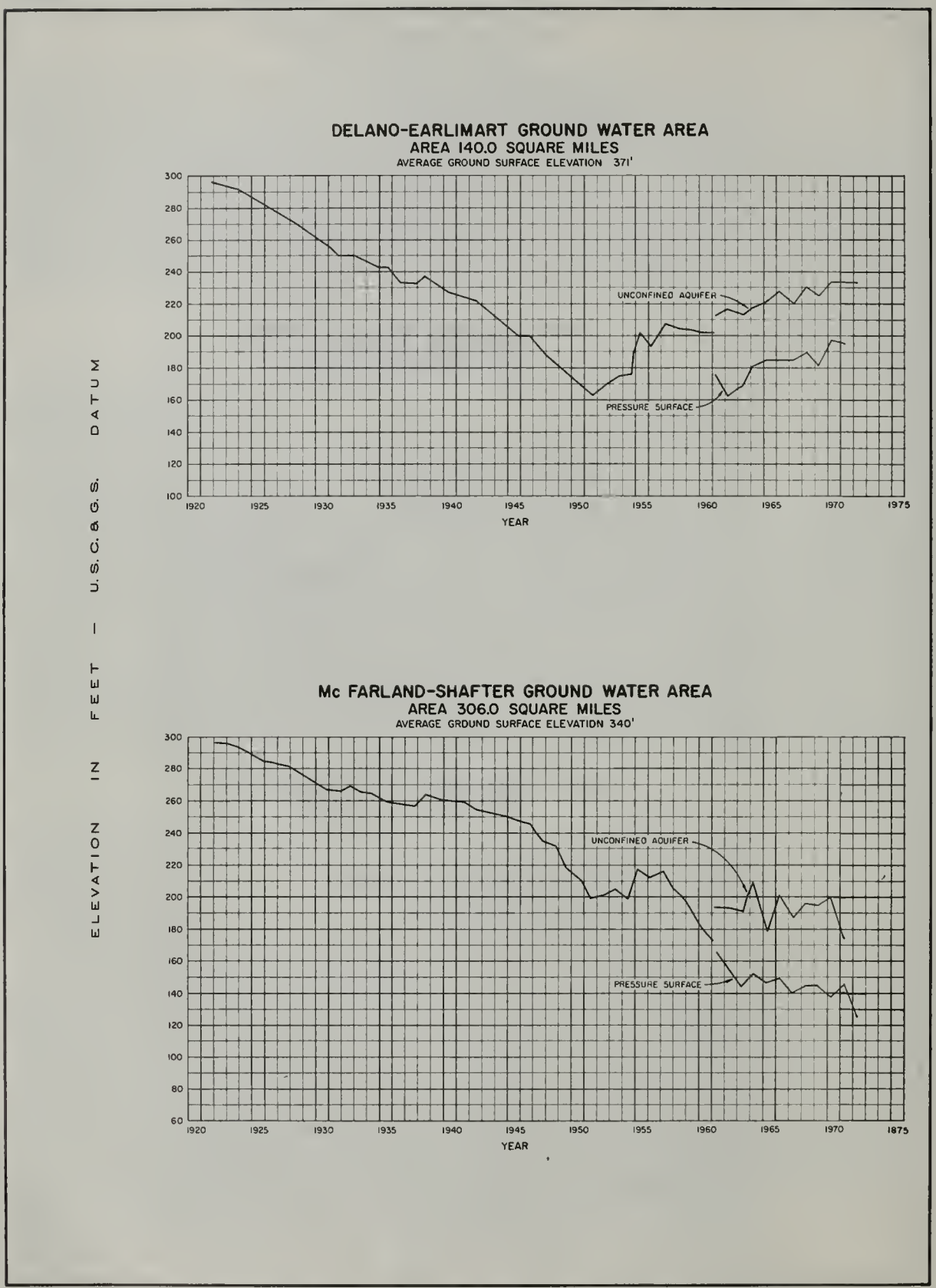
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



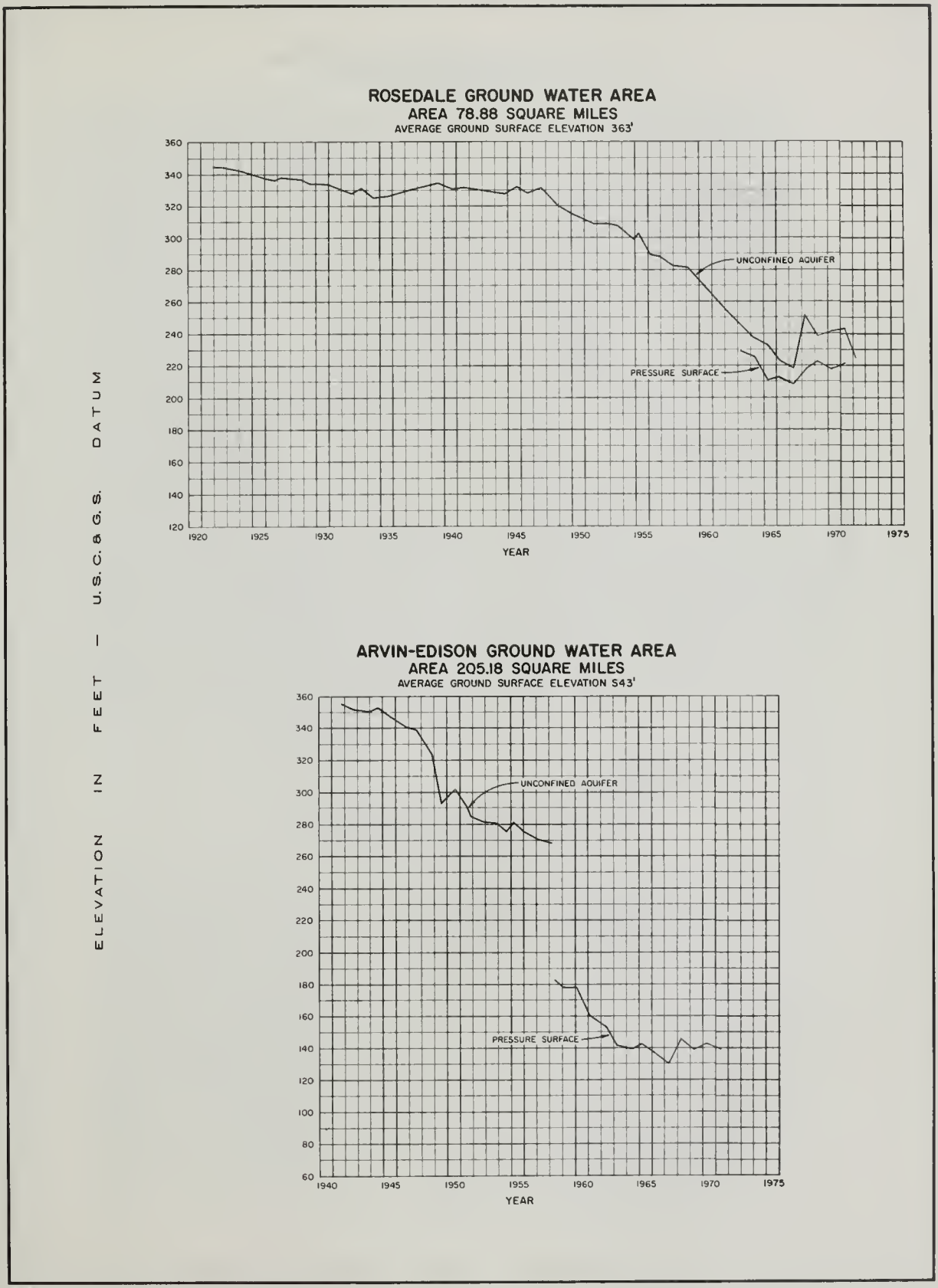
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



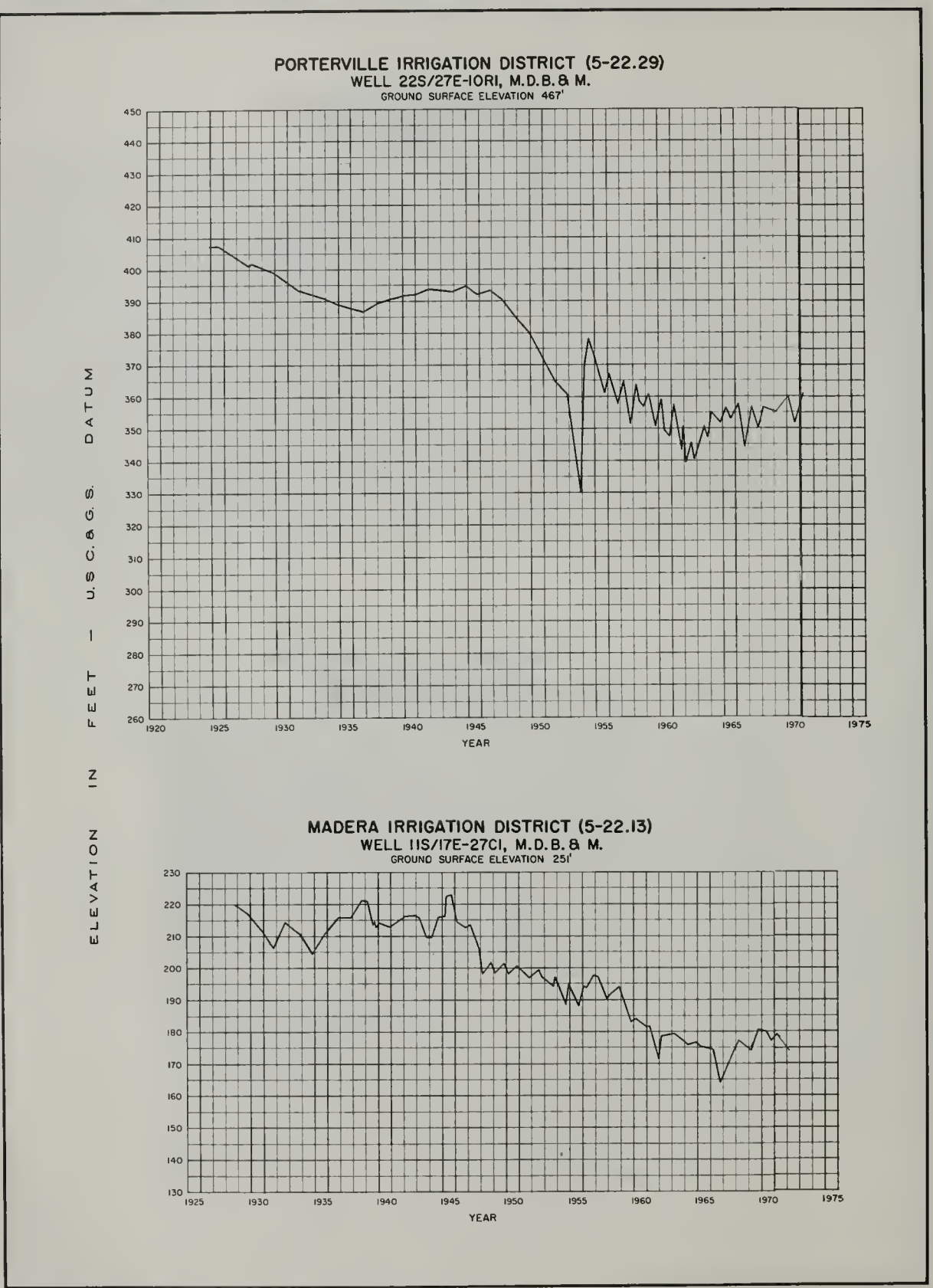
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-I (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



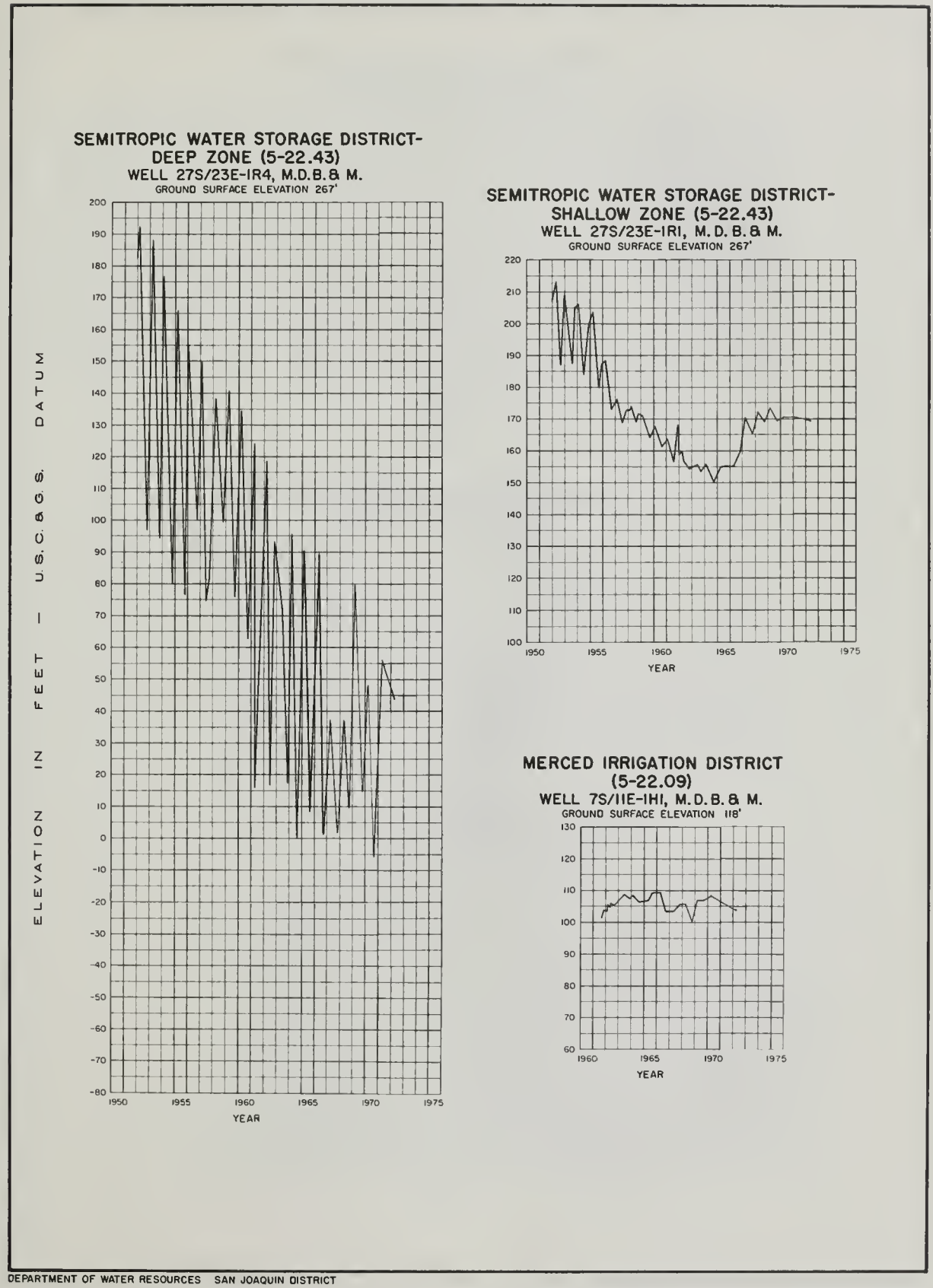
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2. FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



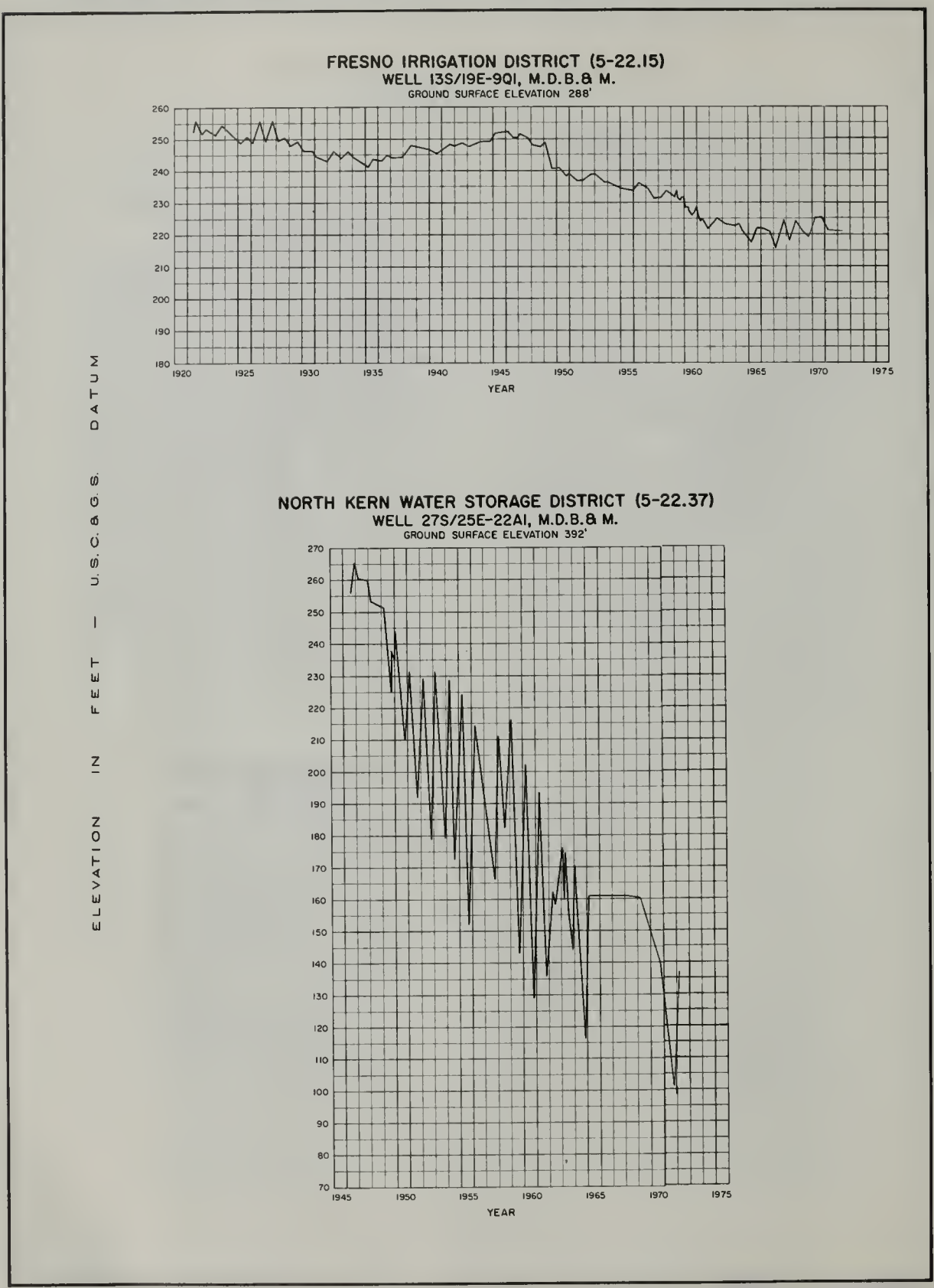
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



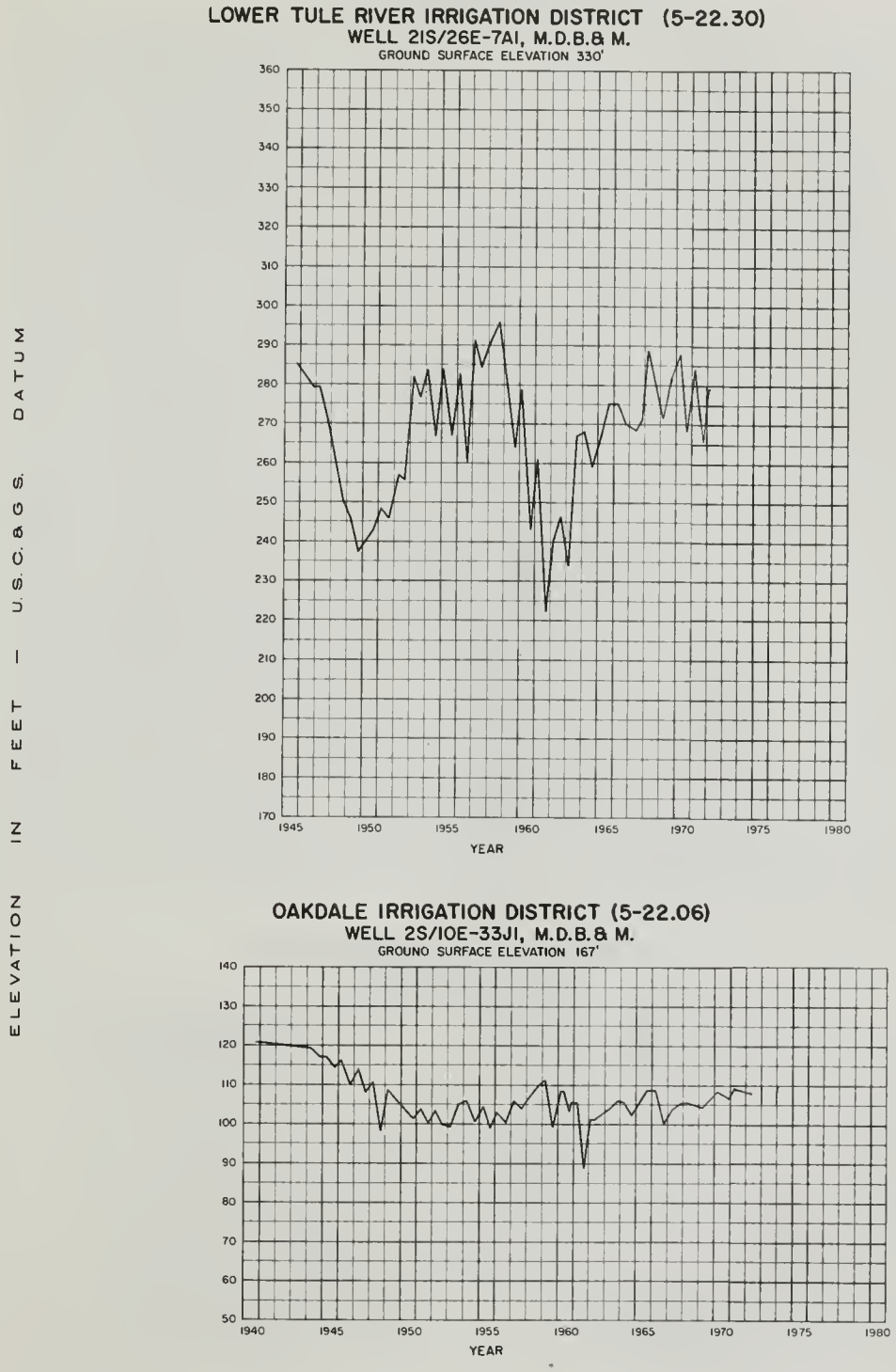
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



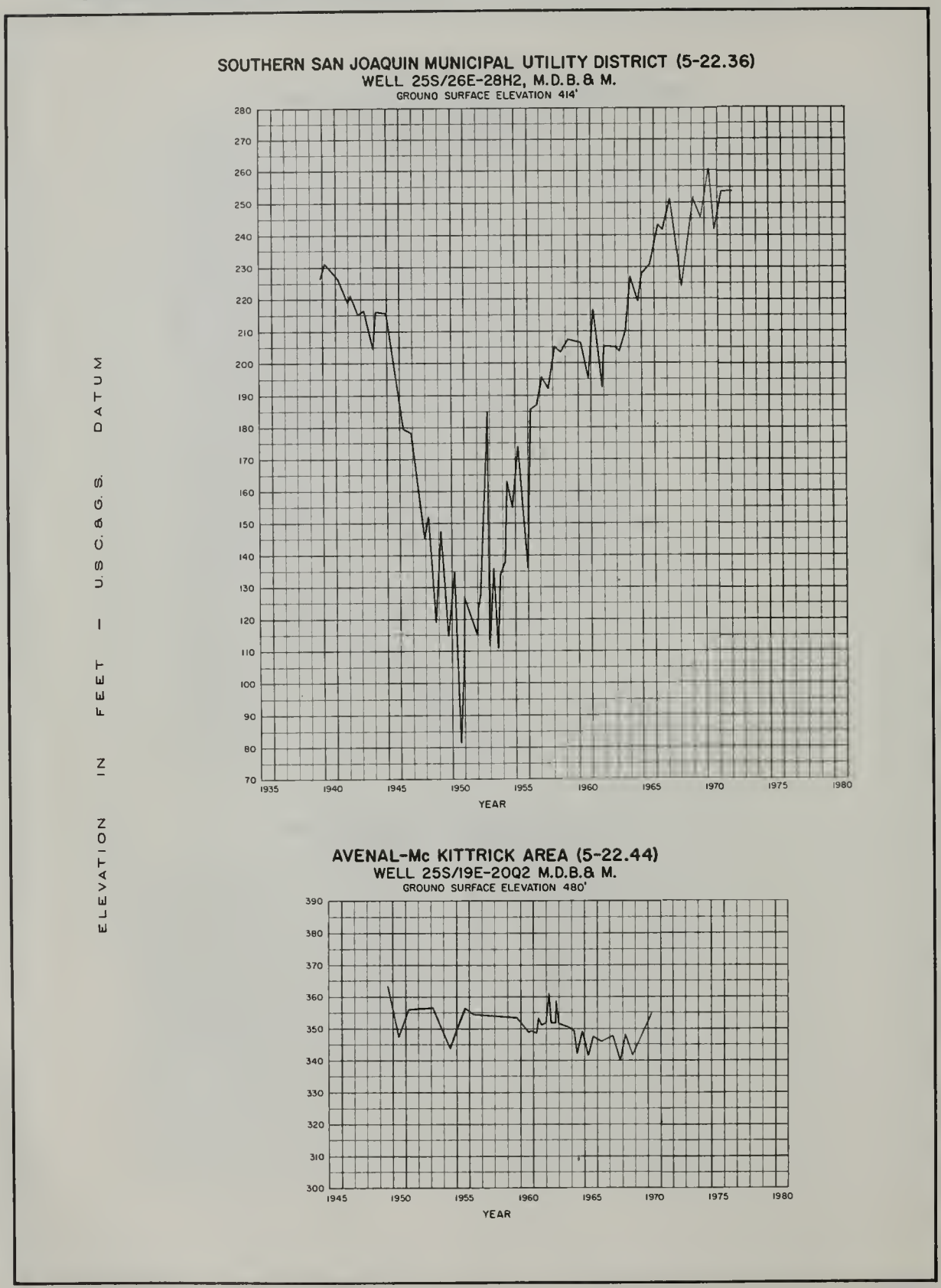
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



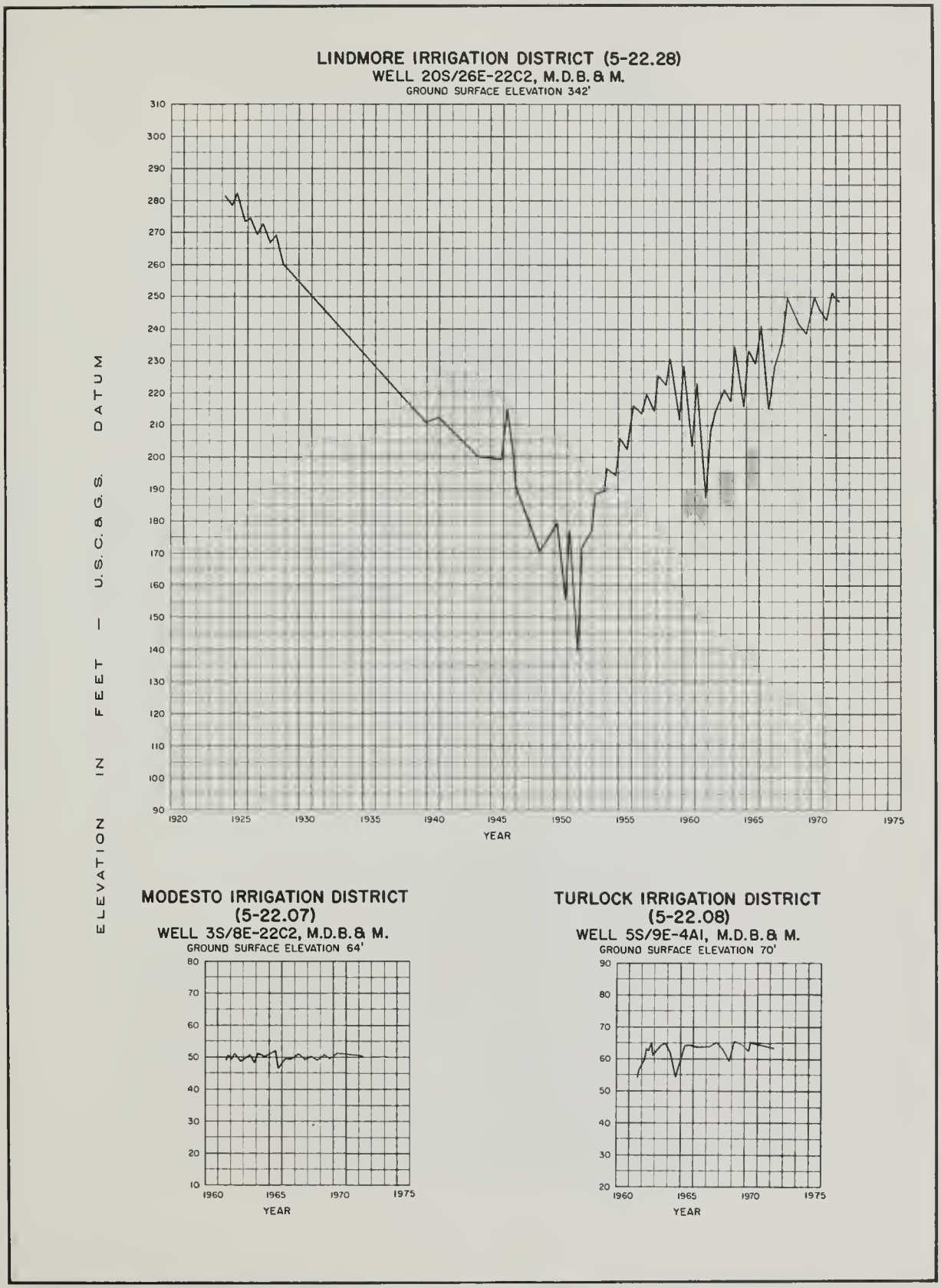
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



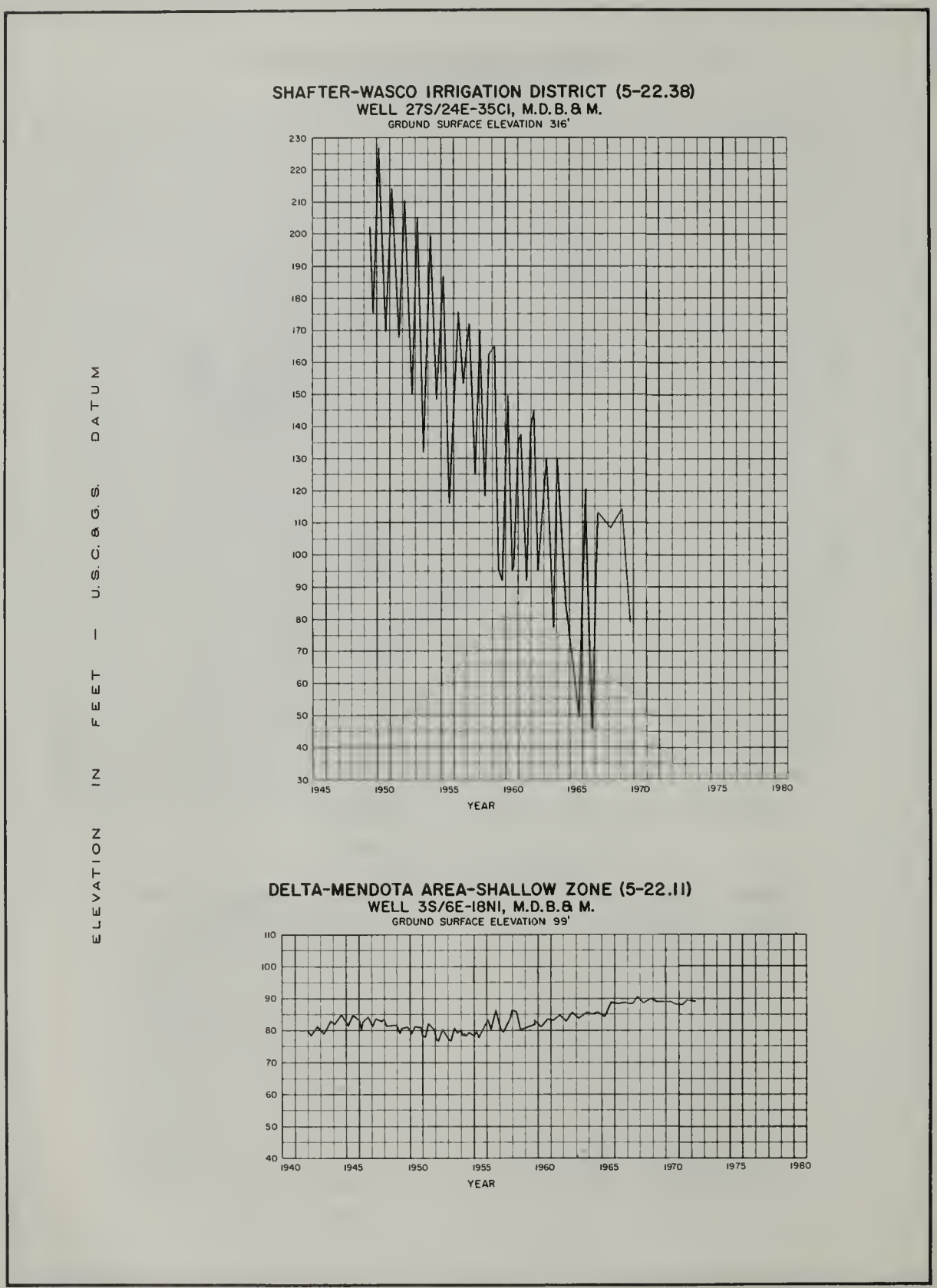
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



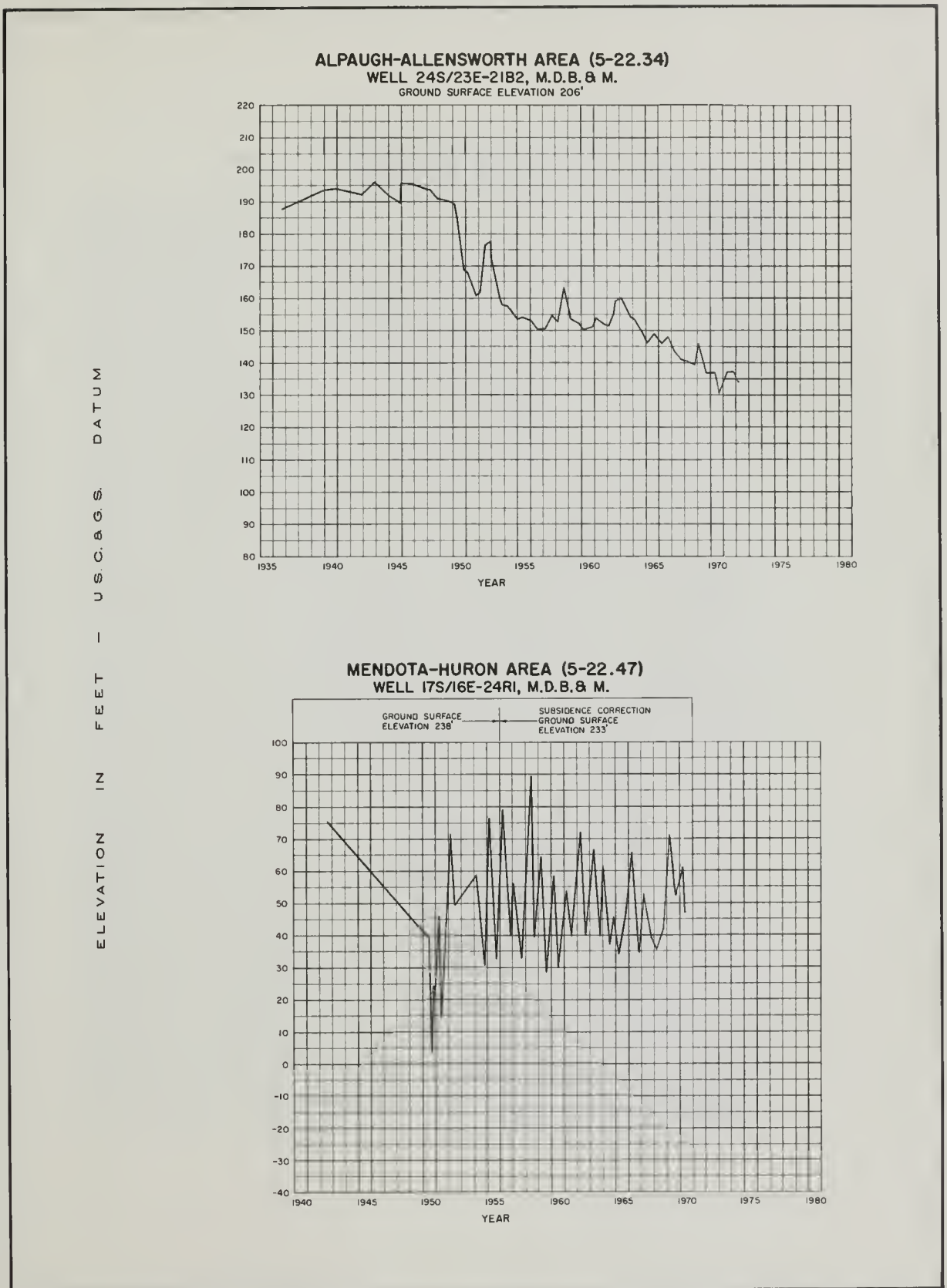
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



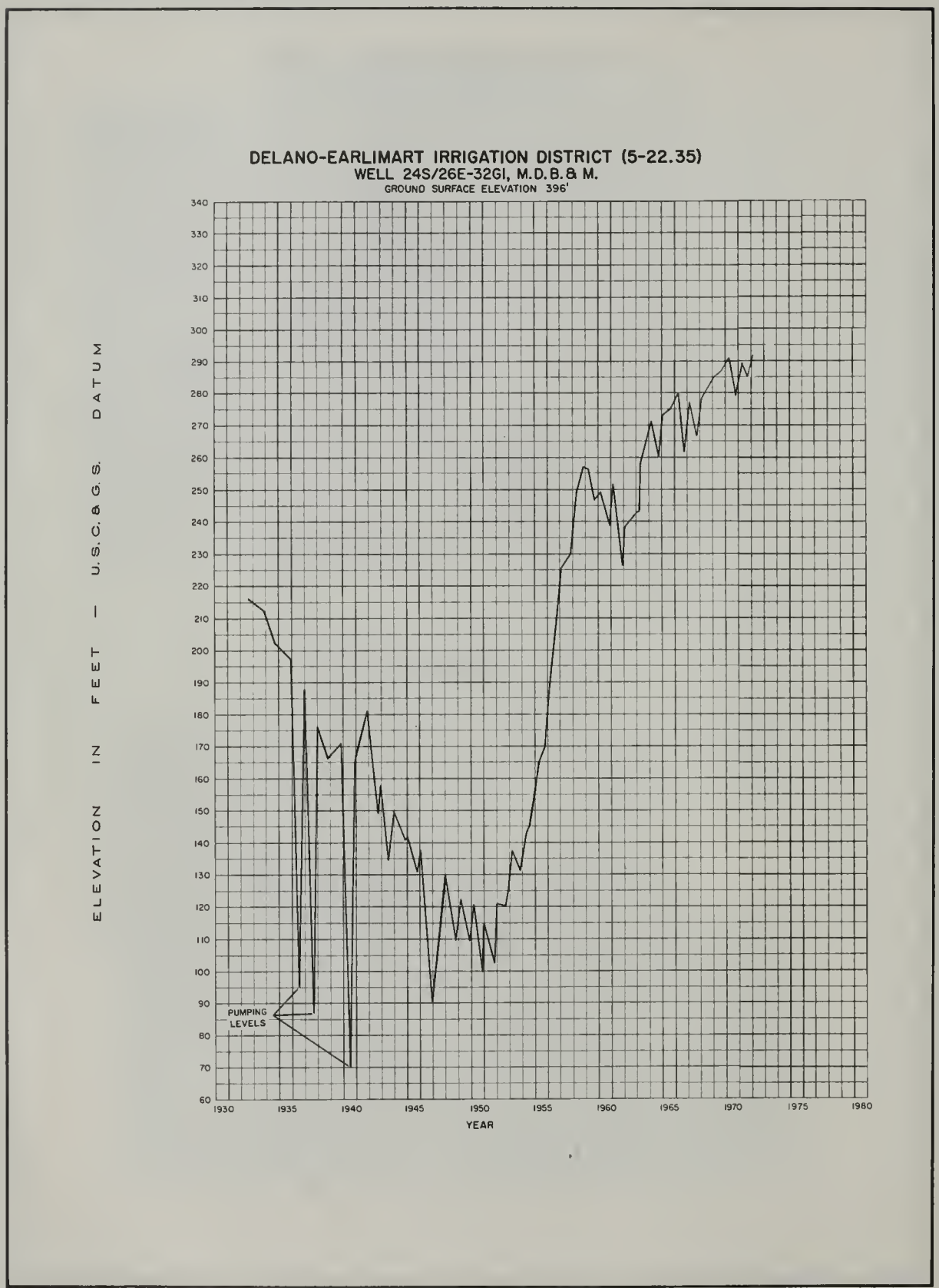
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



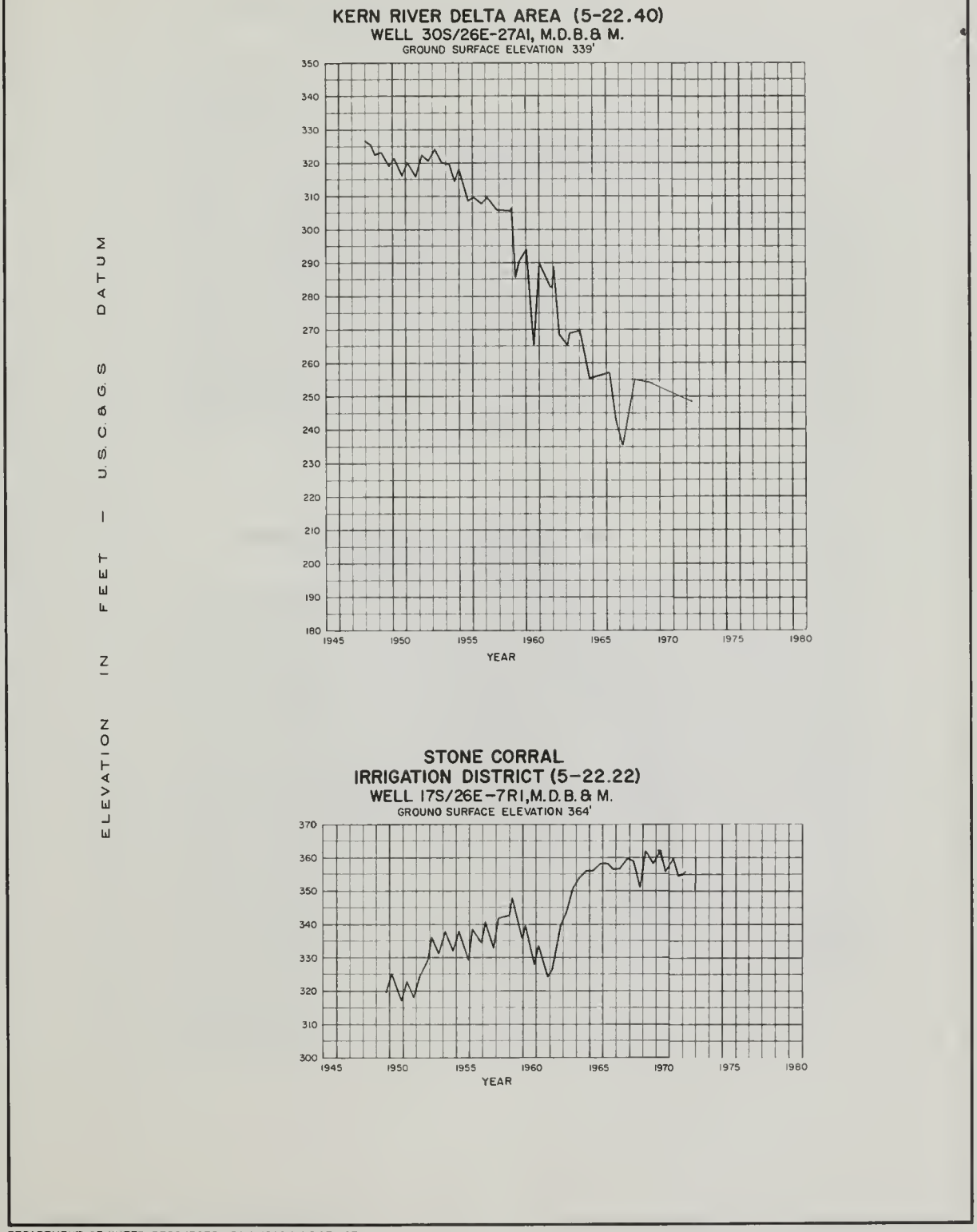
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



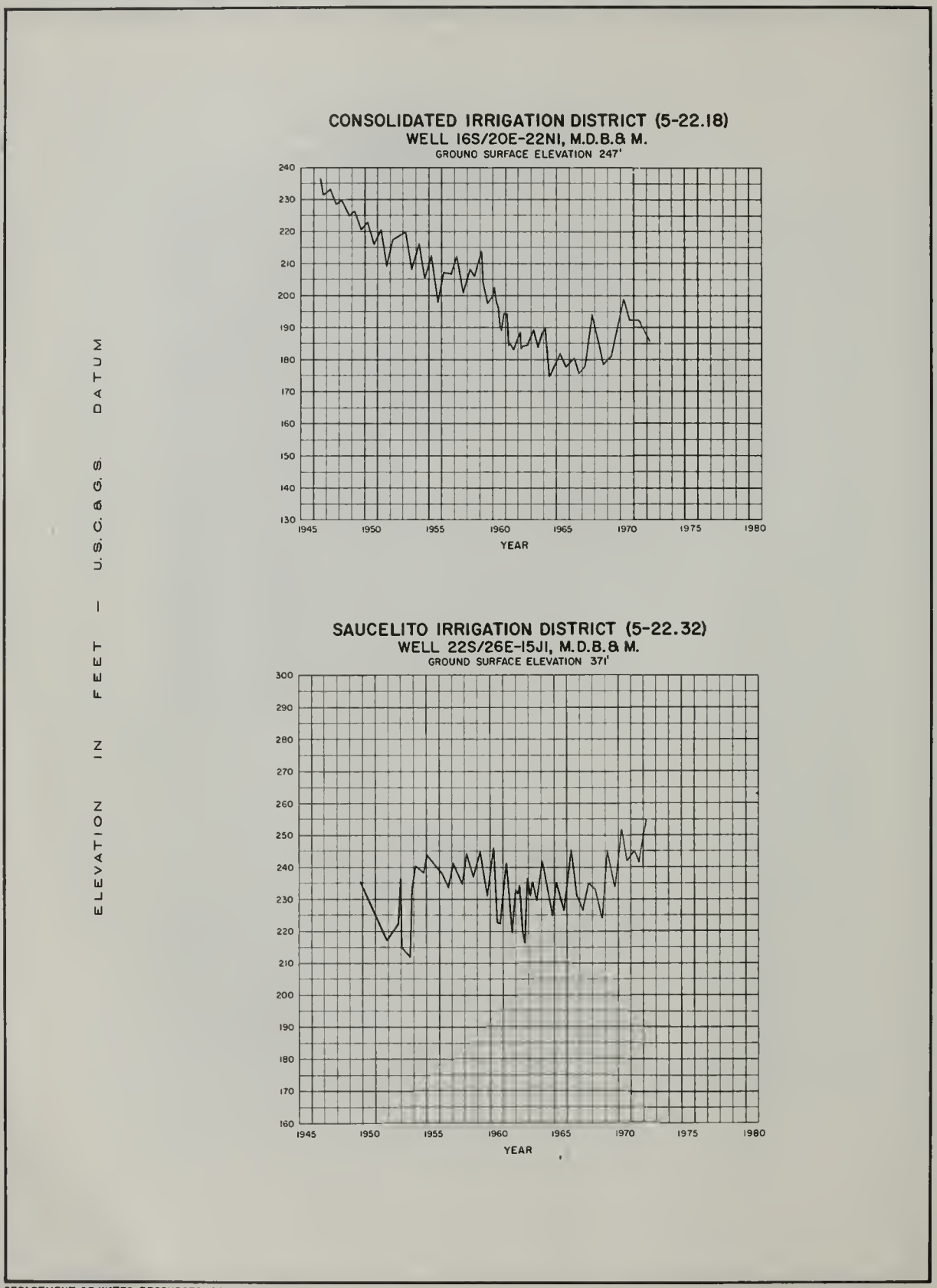
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



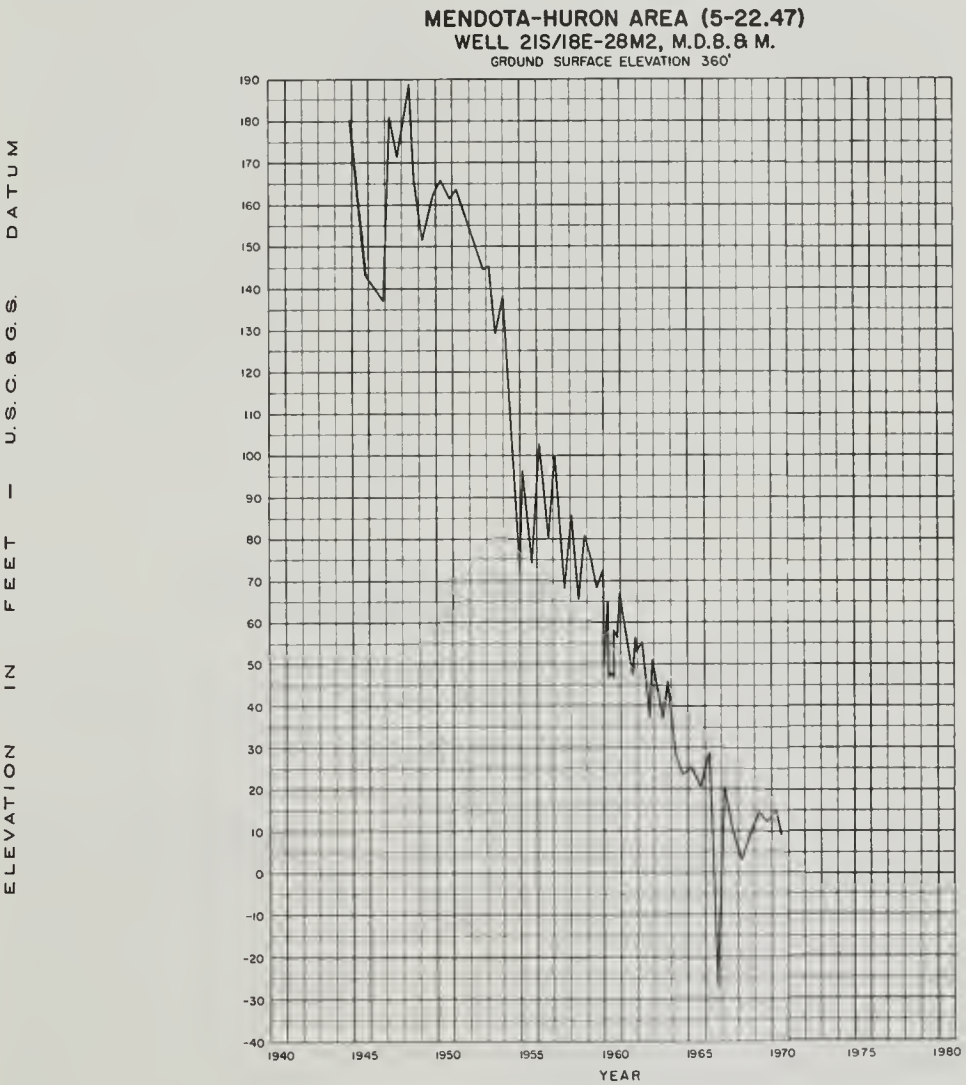
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



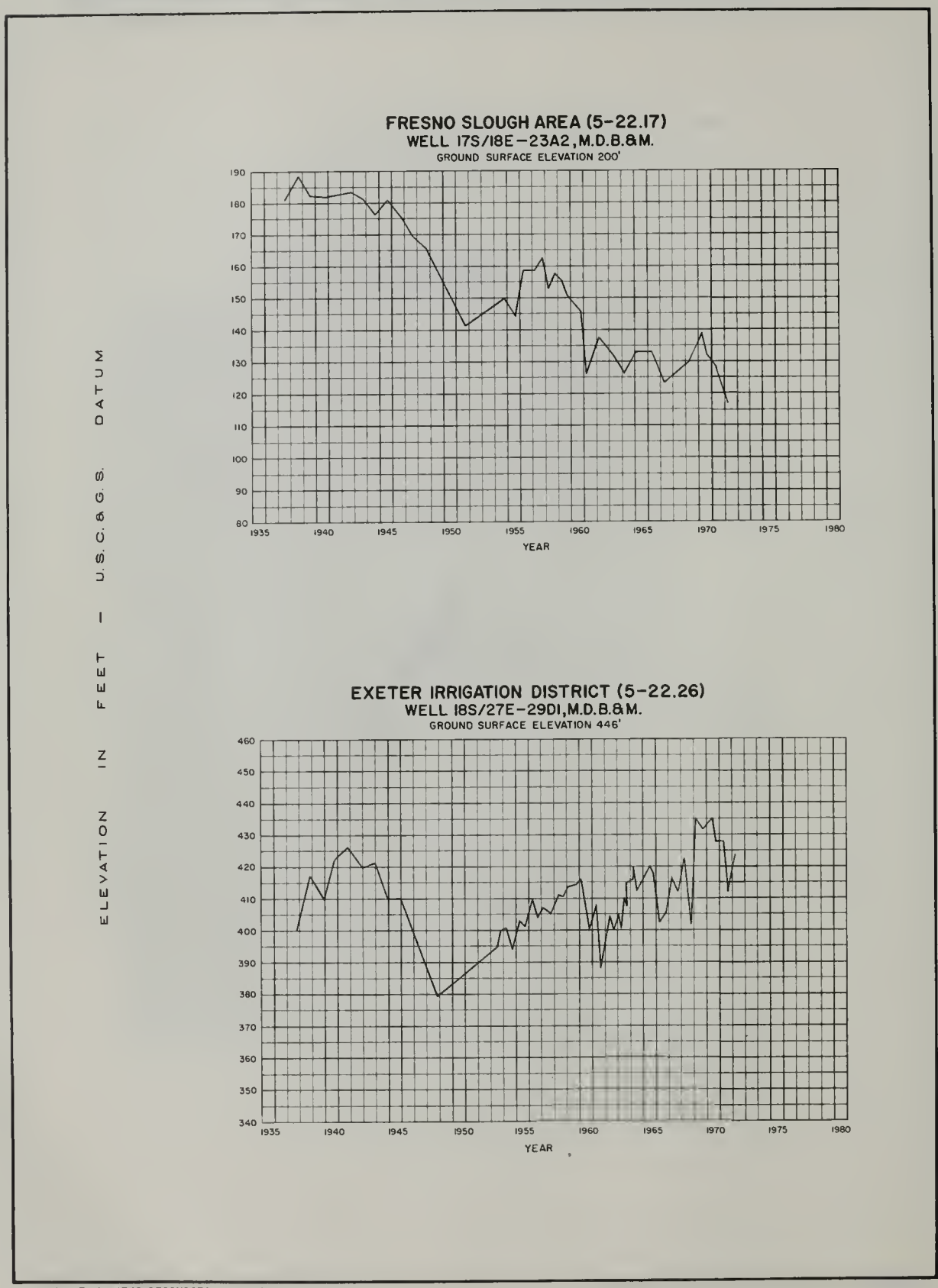
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



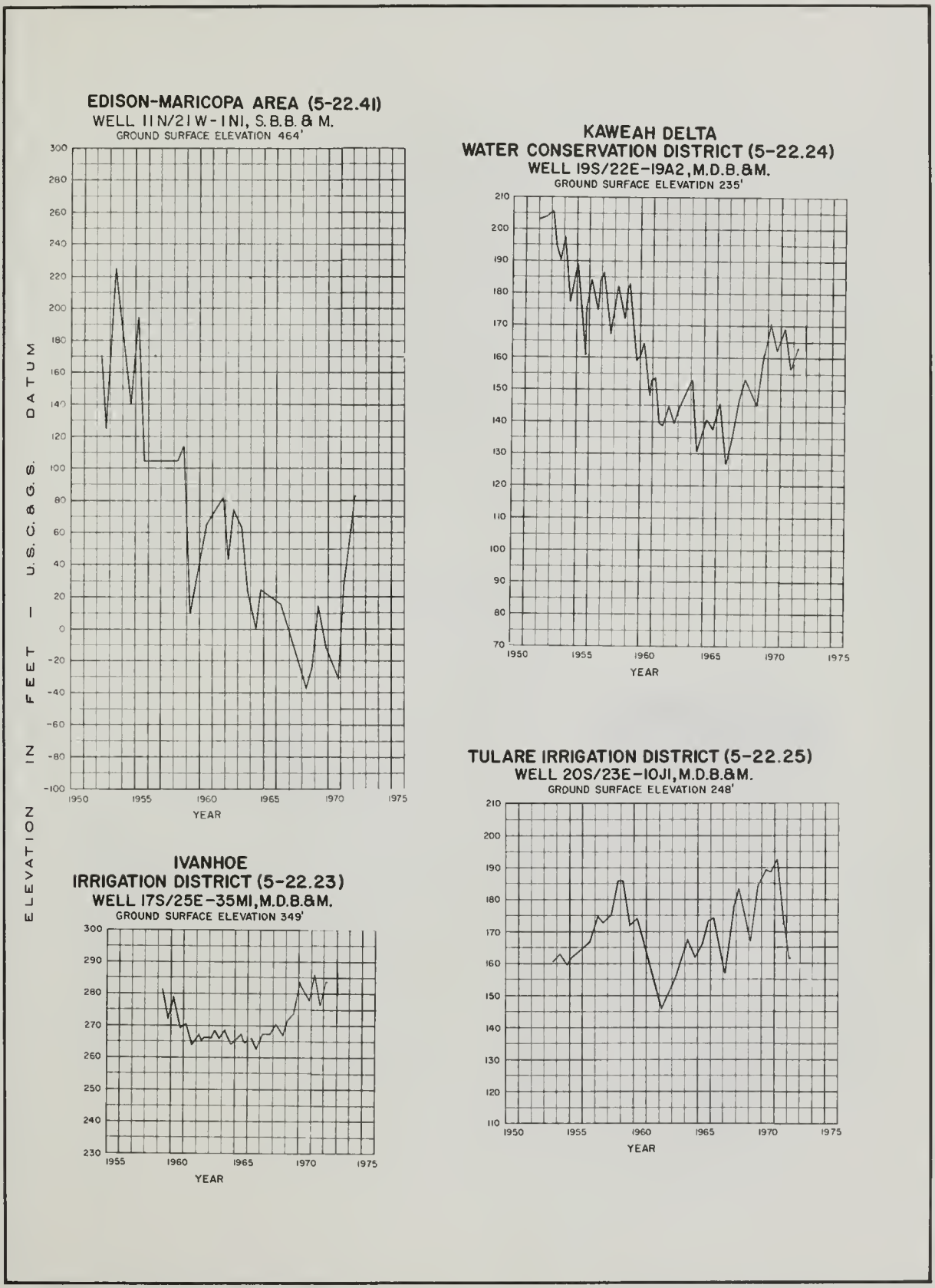
DEPARTMENT OF WATER RESOURCES SAN JDAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



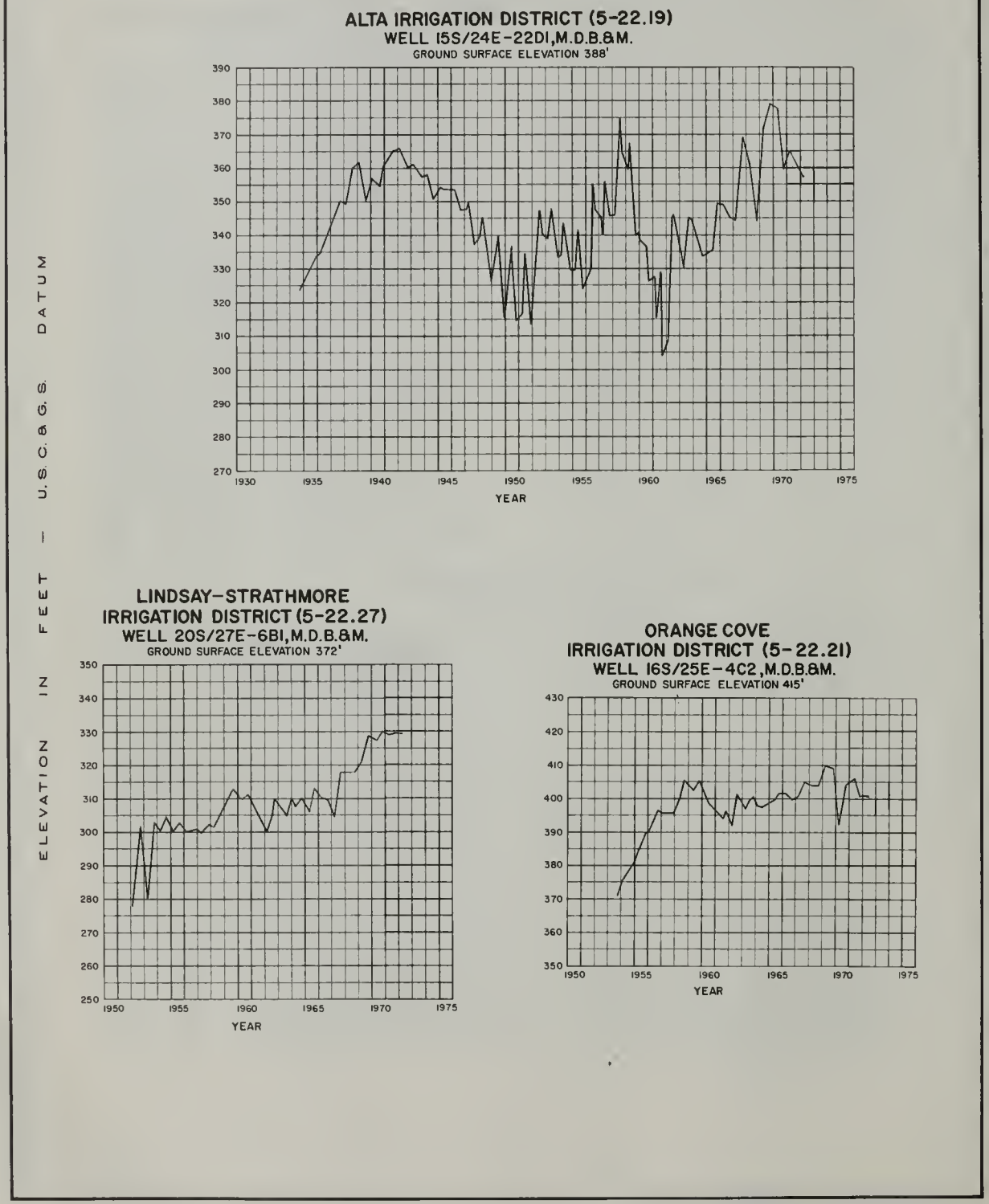
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



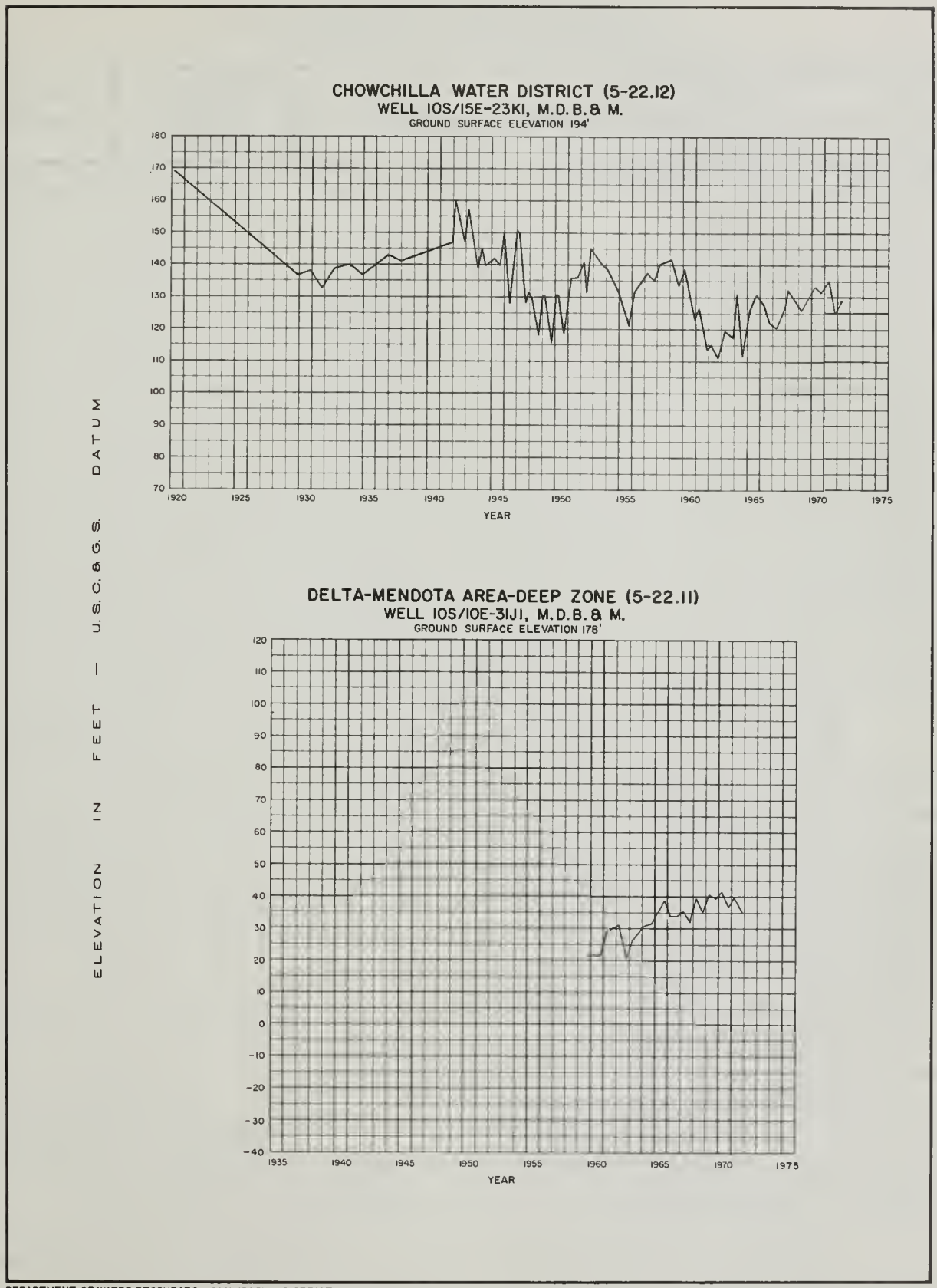
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

TABLE C-1

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1971 - Spring 1972

Ground Water Districts or Areas		Number of Wells Considered in Analysis[a]	Change in Feet
Name	Number		
San Joaquin Valley	5-22.00		
Oakdale Irrigation District	5-22.06		+ 0.7
Modesto Irrigation District	5-22.07		+ 0.9
Turlock Irrigation District	5-22.08		0
Merced Irrigation District	5-22.09		- 0.9
El Nido Irrigation District	5-22.10		- 7.3
Delta-Mendota Area	5-22.11	228	- 0.6
Chowchilla Water District	5-22.12		- 4.6
Madera Irrigation District	5-22.13		0
West Chowchilla-Madera Area	5-22.14		- 6.5
Fresno Irrigation District	5-22.15		+ 0.6
City of Fresno	5-22.16	61	- 1.6
Fresno Slough Area	5-22.17		- 9.3
Consolidated Irrigation District	5-22.18		- 3.2
Alta Irrigation District	5-22.19		- 4.2
Lower Kings River Area	5-22.20		
Shallow Zone			- 8.1
Deep Zone			+ 1.0
Orange Cove Irrigation District	5-22.21		- 6.5
Stone Corral Irrigation District	5-22.22	12	- 2.5
Ivanhoe Irrigation District	5-22.23		+ 0.2
Kaweah-Delta Water Conservation District	5-22.24		- 5.2
Tulare Irrigation District	5-22.25		-13.7
Exeter Irrigation District	5-22.26		- 0.1
Lindsay-Strathmore Irrigation District	5-22.27		- 1.5
Lindmore Irrigation District	5-22.28		- 0.6
Porterville Irrigation District	5-22.29		+ 6.3
Lower Tule River Irrigation District	5-22.30		
Shallow Zone			- 8.8
Deep Zone		Insufficient data to compute change.	
Vandalia Irrigation District	5-22.31	5	+ 9.7
Saucelito Irrigation District	5-22.32		
Shallow Zone			-22.3
Deep Zone		Insufficient data to compute change.	
Pixley Irrigation District	5-22.33		
Shallow Zone			-31.8
Deep Zone			- 7.2

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1971 - Spring 1972

Ground Water Districts or Areas		Number of Wells Considered in Analysis[a/]	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Alpaugh-Allensworth Area	5-22.34		
Shallow Zone			+ 1.9
Deep Zone			-37.0
Delano-Earlimart Irrigation District	5-22.35		
Shallow Zone			- 8.9
Deep Zone		Insufficient data to compute change	
Southern San Joaquin Municipal Utility District	5-22.36		
Shallow Zone			- 7.1
Deep Zone			-20.3
North Kern Water Storage District	5-22.37		
Shallow Zone			-29.4
Deep Zone			-13.6
Shafter-Wasco Irrigation District	5-22.38		
Shallow Zone			-28.9
Deep Zone			-16.7
City of Bakersfield	5-22.39	19	- 1.6
Kern River Delta Area	5-22.40		
Shallow Zone			-12.4
Deep Zone		Insufficient data to compute change.	
Edison-Maricopa Area	5-22.41		
Deep Zone			+ 6.3
Buena Vista Water Storage District	5-22.42		
North Area			- 5.9
South Area			-21.9
Semitropic Water Storage District	5-22.43		
Shallow Zone			- 9.3
Deep Zone			-19.8
Avenal-McKittrick Area	5-22.44	No measurements made spring 1972.	
Tulare Lake-Lost Hills Area	5-22.45	Insufficient data to compute change.	
Corcoran Irrigation District	5-22.46		
Shallow Zone			- 6.2
Deep Zone			-27.9
Mendota-Huron Area	5-22.47		
Deep Zone			+18.7[b/]
Poso Soil Conservation District	5-22.48		- 1.3
San Luis Canal Company	5-22.49		- 4.2

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1971-- Spring 1972

Ground Water Districts or Areas		Number of Wells Considered in Analysis[a/]	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Terra Bella Irrigation District	5-22.50		-11.5
Merced Bottoms	5-22.54		- 6.0
Centerville Bottoms Area	5-22.64		- 4.9
Garfield Water District	5-22.65	12	- 2.2
Kings County Water District	5-22.66		
Shallow Zone			- 5.3
Deep Zone			- 6.4
Pleasant Valley Area	5-22.69	22	- 3.2

a/ Average changes were determined by planimetering ground water contour maps. Where numbers appear changes were computed by numerical averages.
b/ Average change determined from water level measurements made during December 1970 and January 1972.

TABLE C-2

CHANGE IN AVERAGE GROUND WATER LEVEL FROM
1921 TO 1951 AND 1951 TO 1972
IN 18 GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY

Name of Ground Water Area*	Area in square miles	Irrigation and Other Water Districts Included in the Ground Water Area	Net change in water level 1921-51[a] in feet	Net change in water level 1951-72[b] in feet
Madera	342.6	Madera Irrigation District and Chowchilla Water District	- 24.1[c]	- 18.3
Fresno	404.0	Fresno Irrigation District and City of Fresno	- 22.4	- 17.3
Consolidated	243.0	Consolidated Irrigation District	- 19.0	+ 2.8
Centerville Bottoms	18.1	-----	+ 1.0	- 4.9
Alta	190.9	Alta Irrigation District	- 17.2[c]	+ 7.1
Ivanhoe	17.4	Ivanhoe Irrigation District	- 55.9	+ 13.7
Outside Ivanhoe	76.6	Stone Corral Irrigation District and a portion of Alta Irrigation District	- 28.5	+ 7.0
Mill Creek	128.2	Portions of Kings County Water District and Kaweah Delta Water Conservation District	- 31.1	- 14.5
Tulare	121.1	Tulare Irrigation District	- 59.1	- 2.1
Elk Bayou	67.6	Portion of Kaweah Delta Water Conservation District	- 47.8	+ 0.4
Lindsay-Exeter	136.4	Exeter Irrigation District, Lindsay-Strathmore Irrigation District, and Lindmore Irrigation District	- 77.7	+ 74.0
Tule River	156.6	Porterville Irrigation District, portions of Lower Tule River Irrigation District, and Saucelito Irrigation District	- 62.5	+ 40.3
Lower Deer Creek	162.2	Portions of Lower Tule River Irrigation District, Saucelito Irrigation District, and Delano-Earlimart Irrigation District	-106.7	- 20.4[e] [f]
Middle Deer Creek	54.6	Terra Bella Irrigation District	- 61.8	- 4.3[e] [f]
Delano-Earlimart	140.0	Portions of Delano-Earlimart Irrigation District and Southern San Joaquin Municipal Utility District	-133.8	+ 21.5[e] [f]
McFarland-Shafter	306.0	North Kern Water Storage District, Shafter-Wasco Irrigation District, and a portion of Southern San Joaquin Municipal Utility District	- 99.0	- 17.0[e] - 40.8[g]
Rosedale	78.9	-----	- 36.3	- 72.8 [f]
Arvin-Edison	205.2	Arvin-Edison Water Storage District	- 69.9[d]	[f]

a/ 1951 was the first year of substantial deliveries from the Friant-Kern Canal.
b/ Fall 1951 to spring 1972.
c/ Fall 1929 to fall 1951.
d/ Fall 1941 to fall 1951.
e/ Unconfined aquifer, spring 1961 to spring 1972; only one aquifer reported prior to 1961.
f/ Insufficient data in pressure aquifer to compute change.
g/ Pressure surface, spring 1961 to spring 1972; only one aquifer reported prior to 1961.

* These areas are shown on Plate 2.

TABLE C-3

GROUND WATER LEVELS AT WELLS

An explanation of the column headings and the code symbols follows:

State Well Number--refer to the explanation under Introduction, page 126.

Aquifer--Qualifications are based on the latest geologic knowledge of the aquifer system and construction of individual wells. The code symbols are as follows:

0	Unqualified due to lack of well construction and/or geology information.	4	Unconfined, outside Corcoran Clay area.
1	Unconfined, perforated above the Corcoran Clay.	5	Confined, aquitard other than Corcoran Clay.
2	Confined, perforated below the Corcoran Clay.	6	Composite, perforated above and below aquitard outside Corcoran Clay area.
3	Composite, perforated above and below the Corcoran Clay.		

Ground surface elevation represents the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the ground surface at the well. Elevations are usually taken from topographic maps and the accuracy is controlled by topographic standards.

Date is the date the depth measurement was made. Where 00 appears in the date, day of measurement is unknown.

Ground surface to water surface in feet is the measured depth in feet from the ground surface to the water surface in the well.

Other code symbols used in this column are as follows:

NO MEASUREMENT (NM)

0	Measurement discontinued	5	Unable to locate well
1	Pumping	6	Well has been destroyed
2	Pump house locked	7	Special
3	Tape hung up	8	Casing leaking or wet
4	Can't get tape in casing	9	Temporarily inaccessible

The words FLOW and DRY are shown in this column to indicate a flowing or dry well.

Water surface elevation is the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the water surface in the well. It was derived by machine computation by subtraction of the depth measurement from the reference point elevation.

Agency supplying data represents the code numbers for the agencies supplying water level data.

In this list of water levels, the agency furnishing the measurement is noted. The agencies and code numbers assigned to them are as follows:

Agency Code	Agency	Agency Code	Agency
5000	U. S. Geological Survey	5603	Kaweah Delta Water Conservation District
5001	U. S. Bureau of Reclamation	5605	Exeter Irrigation District
5050	Department of Water Resources	5606	Lindsay-Strathmore Irrigation District
5121	Kern County Water Agency	5607	Lindmore Irrigation District
5129	Kings County Water District	5608	Porterville Irrigation District
5200	City of Fresno	5609	Lower Tule Irrigation District
5520	Oakdale Irrigation District	5611	Saucelito Irrigation District
5521	Modesto Irrigation District	5613	Delano-Earlimart Irrigation District
5524	Turlock Irrigation District	5614	South San Joaquin Municipal Utility District
5525	Merced Irrigation District	5616	Shafter-Wasco Irrigation District
5527	El Nido Irrigation District	5626	Rag Gulch Water District
5528	Chowchilla Water District	5631	Fresno Irrigation District
5529	Poso Soil Conservation District	5636	Consolidated Irrigation District
5530	Madera Irrigation District	5637	Alta Irrigation District
5602	Ivanhoe Irrigation District	5640	Buena Vista Water Storage District
		5644	Arvin-Edison Water Storage District

TABLE C-3
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
OAKDALE I O				52206		
015/09E-16J01 M	1	119.0	03-00-72	64.2	54.8	5520
015/09E-36A01 M	1	145.0	03-00-72	54.0	91.0	5520
015/10E-19L01 M	1	146.5	03-00-72	56.3	90.2	5520
015/10E-28J01 M	1	193.0	03-00-72	84.2	108.8	5520
025/09E-26F01 M	1	132.0	03-00-72	53.4	78.6	5520
025/10E-04M01 M	1	185.5	03-00-72	76.6	108.9	5520
025/10E-33J01 M	1	165.0	03-00-72	57.7	107.3	5520
025/11E-29B01 M	1	218.0	03-00-72	88.8	129.2	5520
025/11E-31N01 M	1	192.0	03-00-72	75.0	117.0	5520
025/12E-31K01 M	1	190.0	03-00-72	41.2	148.8	5520
035/10E-15A01 M	1	152.0	03-00-72	43.5	108.5	5520
035/11E-18D01 M	1	162.0	03-00-72	52.7	109.3	5520
MODESTO I D				52207		
025/08E-25P01 M	1	94.0	02-20-72	34.9	59.1	5521
025/09E-30F01 M	4	93.0	02-16-72	22.3	70.7	5050
025/09E-31D01 M	1	100.3	02-20-72	32.6	64.4	5521
035/07E-12C01 M	4	47.0	02-17-72	5.8	41.2	5050
035/07E-35A02 M		40.0	02-17-72	3.9	36.1	5050
035/08E-03A02 M	4	73.0	02-17-72	19.0	54.0	5050
035/08E-22C02 M		64.0	02-17-72	14.0	50.0	5050
035/08E-24C02 M	1	74.0	02-20-72	17.2	55.8	5521
035/09E-08D01 M	1	92.5	02-20-72	27.2	64.8	5521
035/09E-11M01 M	1	99.0	02-20-72	18.5	80.5	5521
035/09E-26F01 M	4	100.0	02-17-72	NM-6		5050
035/10E-06G01 M	1	133.1	02-20-72	35.2	97.9	5521
035/10E-29K01 M	1	119.2	02-20-72	46.2	71.8	5521
035/10E-32G01 M	1	123.0	02-20-72	56.4	63.6	5521
035/10E-33E01 M		120.0	02-16-72	57.8	62.2	5050
045/08E-03F01 M	1	63.0	02-20-72	15.0	45.0	5521
TURLOCK I O				52208		
045/08E-22R01 M		55.0	02-17-72	7.3	47.7	5050
045/08E-27D01 M	1	55.0	03-00-72	10.8	44.2	5524
045/09E-21N01 M	1	75.0	03-00-72	10.0	65.0	5524
045/10E-21R01 M	1	109.0	03-00-72	DRY		5524
045/11E-29N01 M	1	131.0	03-00-72	DRY		5524
045/11E-31R01 M	1	128.6	03-00-72	13.6	114.4	5524
055/08E-01N01 M	1	53.0	03-00-72	6.6	46.4	5524
055/08E-10A01 M	1	49.7	03-00-72	12.6	31.4	5524
055/09E-04A01 M		70.0	02-16-72	6.2	63.8	5050
055/09E-14R01 M	1	75.0	03-00-72	7.2	67.8	5524
055/09E-24N01 M	1	75.0	03-00-72	7.9	67.1	5524
055/09E-28A01 M	1	63.4	03-00-72	7.3	55.7	5524
055/09E-34J01 M		64.0	02-16-72	10.8	53.2	5050
055/10E-19R01 M	1	82.9	03-00-72	5.7	76.3	5524
055/10E-21R01 M	1	92.0	03-00-72	7.8	84.2	5524
055/11E-06J02 M	4	124.0	02-16-72	7.5	116.5	5050
055/11E-21N01 M	1	125.0	03-00-72	9.8	115.2	5524
055/11E-30A01 M	1	117.0	03-00-72	14.3	102.7	5524
055/11E-33N01 M	1	115.5	03-00-72	7.0	108.5	5524
065/09E-15R01 M	1	60.0	03-00-72	4.5	55.5	5524
065/10E-21A01 M	1	85.6	03-00-72	5.0	80.6	5524
065/10E-28D01 M	1	83.6	03-00-72	10.1	73.5	5524
065/11E-06N01 M	1	106.2	03-00-72	11.2	95.0	5524
065/11E-08R01 M	1	115.0	03-00-72	12.2	104.0	5524
MERCED I O				52209		
065/12E-22N01 M	1	150.0	03-02-72	17.3	133.5	5050
MERCED I O				52209		
065/14E-32N01 M	1	178.1	03-01-72	15.6	162.5	5525
075/10E-01N01 M	1	90.7	03-06-72	9.4	81.3	5525
075/11E-01M01 M	3	118.0	02-22-72	14.0	104.0	5050
075/11E-13N01 M	1	106.6	03-02-72	6.9	99.7	5525
075/12E-12D01 M	1	144.0	03-02-72	DRY		5050
075/12E-12R01 M	1	147.3	03-02-72	DRY		5525
075/13E-16N01 M	1	151.9	03-02-72	NM-6		5525
075/13E-26D01 M	1	155.8	03-02-72	14.7	140.8	5050
075/14E-11N01 M	1	192.0	03-01-72	16.2	175.6	5050
075/14E-16R01 M	1	187.5	03-01-72	DRY		5525
085/12E-01D01 M	1	120.2	03-02-72	9.2	110.9	5525
085/13E-09R01 M	1	135.0	03-03-72	7.9	127.1	5525
085/14E-01A01 M	1	196.8	03-02-72	14.2	183.3	5525
085/14E-10N01 M	1	172.6	03-02-72	9.4	163.2	5050
EL NIDO I O				52210		
095/13E-14M01 M		133.0	10-22-71 10-29-71 02-18-72	106.0 89.0 82.0	29.0 44.0 51.0	5527
095/14E-20B01 M		152.0	10-29-71 02-18-72	70.0 65.0	82.0 87.0	5527
DELTA-MENDOTA AREA				52211		
045/06E-04N01 M	2	193.0	10-06-71 03-07-72	151.5 122.4	44.5 73.6	5050
045/06E-09R01 M	1	166.3	10-06-71 03-07-72	126.1 NM-1	40.2	5001
045/07E-27M01 M	1	68.0	10-14-71 03-09-72	23.5 NM-1	44.5	5001
055/07E-14C01 M	1	130.4	10-15-71 03-06-72	NM-9 79.6	50.8	5001
055/07E-23L01 M		138.0	10-15-71 03-06-72	93.1 82.3	44.9 55.7	5050
055/08E-32K01 M	1	90.9	10-15-71 03-10-72	13.2 7.7	77.7 83.2	5001
065/07E-12P01 M		248.3	03-07-72	13.4	234.9	5050
065/08E-10M02 M		80.0	03-07-72	NM-6		5050
065/08E-21R02 M		133.0	10-27-71	41.0	92.5	5050
065/08E-27J01 M	1	114.5	10-13-71 03-16-72	49.5 57.0	65.0 57.5	5050
065/08E-29J01 M	2	190.0	10-15-71 03-07-72	NM-4 NM-4		5050
075/08E-22L01 M	1	127.9	03-07-72	NM-3		5050
075/09E-04R01 M	1	65.6	10-27-71	15.7	49.9	5050
075/09E-26N01 M		68.4	03-16-72 03-16-72	5.3 NM-5	63.1	5050
085/08E-01N01 M	1	123.2	10-15-71 03-09-72	16.1 22.7	107.1 100.5	5050
085/08E-15J01 M		172.8	10-27-71	28.8	144.0	5050
085/09E-26M01 M	2	75.0	03-17-72	23.0	52.0	5050
085/09E-26M03 M	1	75.0	03-17-72	2.9	72.1	5050
085/10E-21L04 M	1	75.0	10-18-71	3.6	71.4	5050
095/08E-24A01 M		157.0	10-27-71	9.6	147.4	5050
095/09E-14N01 M		96.0	10-18-71 03-09-72	60.8 53.1	35.2 42.9	5050
095/09E-18N01 M		153.6	10-27-71	25.3	128.3	5050
095/09E-23L01 M	2	100.0	10-19-71 03-09-72	49.3 41.5	50.7 58.5	5050
095/10E-19B01 M	3	84.0	10-19-71 03-09-72	2.6 1.8	81.4 82.2	5050
095/10E-23J01 M	2	87.0	10-19-71 03-09-72	NM-1 31.6	55.4	5050
095/11E-16M01 M		91.0	10-27-71 03-14-72	8.3 7.1	82.7 83.9	5050
095/11E-20J01 M	2	90.5	10-13-71 03-14-72	47.3 40.3	43.2 50.2	5050
105/09E-06A01 M	1	147.0	10-12-71	NM-7		5050

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
DELTA-MENDOTA AREA				52211		
10S/09E-06A01 M	1	147.0	03-15-72	NM-0		5050
10S/09E-08B01 M	1	167.0	10-12-71	NM-6		5050
			03-15-72	NM-6		
10S/10E-02R01 M	1	99.5	10-12-71	19.8	79.7	5050
			03-15-72	18.1	81.4	
10S/10E-31G01 M		191.1	10-27-71	194.8	- 3.7	5050
10S/10E-32N01 M		189.5	10-27-71	62.0	127.5	5050
			03-15-72	137.0	52.5	
10S/11E-27E02 M	2	101.3	10-15-71	66.0	35.3	5050
			03-13-72	47.8	53.5	
11S/10E-11J01 M	1	157.3	10-14-71	24.8	132.5	5050
			03-14-72	48.7	108.6	
11S/10E-22Q01 M		246.8	10-26-71	100.0	146.8	5050
11S/11E-02J02 M		108.0	10-26-71	4.7	101.3	5050
			03-13-72	2.1	104.5	
11S/11E-22Q03 M		114.0	10-26-71	14.3	99.7	5050
			03-13-72	13.8	100.2	
11S/12E-31C01 M		132.0	10-26-71	17.8	114.2	5050
			03-13-72	NM-6		
12S/12E-06Q01 M		144.0	10-01-71	6.9	137.1	5001
			03-01-72	6.3	137.7	
12S/12E-25Q01 M	1	177.0	10-04-71	57.6	119.4	5001
			03-01-72	58.1	118.9	
12S/12E-25Q02 M	1	177.0	10-04-71	6.4	170.6	5001
			03-01-72	6.4	170.6	
CHOWCHILLA W D				52212		
09S/14E-25R01 M	1	185.0	11-17-71	66.0	119.0	5001
			02-08-72	65.0	120.0	
09S/15E-25J02 M	1	230.0	11-23-71	39.0	191.0	5001
			02-09-72	43.8	186.2	
09S/15E-27A01 M		216.5	02-23-72	123.5	93.0	5001
09S/16E-22R01 M		267.0	11-29-71	40.2	226.8	5001
			02-09-72	40.8	226.2	
09S/17E-19L01 M	1	292.0	11-29-71	93.7	198.3	5528
			02-09-72	85.6	206.4	
09S/17E-35J01 M		320.0	10-12-71	89.3	230.2	5001
			02-10-72	91.3	228.2	
09S/18E-33Q01 M	4	365.0	10-12-71	53.0	309.0	5001
			02-10-72	56.3	305.7	
10S/14E-01A01 M		179.0	11-18-71	73.0	106.0	5001
			02-10-72	70.7	108.3	
10S/14E-01R02 M		177.0	11-18-71	69.3	107.7	5528
			02-10-72	66.3	110.7	
10S/14E-24R01 M		187.0	11-18-71	78.5	88.5	5001
			02-10-72	70.0	97.0	
10S/15E-02Q01 M		212.5	11-19-71	86.7	125.8	5001
			02-10-72	76.0	136.5	
10S/15E-23K01 M		195.5	11-19-71	70.5	125.0	5001
			02-10-72	67.6	127.9	
10S/15E-27Q03 M		184.0	11-19-71	67.5	116.5	5001
			02-10-72	71.6	112.4	
10S/16E-09E01 M		232.0	11-15-71	80.2	151.8	5001
			02-09-72	75.1	156.9	
10S/16E-29R01 M	1	209.5	11-15-71	77.0	131.0	5001
			02-09-72	73.0	135.0	
MADERA I D				52213		
10S/19E-16C01 M	4	387.0	10-13-71	19.2	370.8	5001
			02-10-72	21.3	368.7	
11S/16E-06A01 M		196.0	10-08-71	68.5	127.5	5001
			02-11-72	63.3	132.7	
11S/16E-10N01 M		204.0	10-08-71	71.8	132.2	5001
			02-11-72	67.7	136.3	
11S/17E-27C01 M	1	250.0	10-08-71	75.1	174.9	5001
			02-11-72	76.4	173.6	
11S/18E-20N01 M	1	272.5	10-04-71	89.0	183.5	5001
			02-07-72	70.5	202.0	
11S/18E-27P01 M		284.0	10-04-71	90.3	193.7	5001
			02-07-72	79.4	204.6	
12S/16E-23A01 M		205.0	10-07-71	93.2	111.8	5001
			02-10-72	77.7	127.3	
12S/17E-08D01 M		230.0	10-06-71	87.0	143.0	5001

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
MADERA I O				52213		
12S/17E-08G01 M		230.0	02-10-72	78.9	151.1	5001
12S/17E-21M01 M	1	228.0	10-06-71	66.9	161.1	5001
			02-10-72	63.2	164.8	
12S/17E-28C01 M		235.0	10-06-71	60.7	174.3	5001
			02-10-72	56.3	178.7	
12S/17E-34R01 M		234.0	10-06-71	53.9	180.1	5001
			02-10-72	49.2	184.8	
12S/18E-13R01 M		208.0	10-04-71	78.3	209.7	5001
			02-07-72	77.0	211.0	
12S/18E-21Q01 M	1	265.0	10-04-71	71.2	193.8	5001
			02-07-72	68.6	196.4	
12S/18E-21M01 M		267.0	10-04-71	70.3	196.7	5001
			02-07-72	68.8	198.2	
12S/19E-28A01 M	4	307.5	10-15-71	86.3	221.2	5001
			02-11-72	84.7	222.8	
WEST CHOWCHILLA-MADERA AREA				52214		
10S/13E-22R01 M		119.0	10-06-71	16.6	102.4	5001
			02-04-72	19.8	99.2	
10S/14E-08B03 M		147.0	11-18-71	83.5	63.5	5001
			02-10-72	78.2	68.8	
10S/14E-31M01 M		130.0	10-06-71	40.1	89.9	5001
			02-03-72	34.7	95.3	
10S/14E-35F01 M		151.0	10-06-71	89.9	61.1	5001
			02-03-72	70.8	80.2	
11S/14E-13R01 M		150.0	10-07-71	NM-1		5001
			02-07-72	NM-7		
11S/15E-33E01 M		158.0	10-06-71	NM-1		5001
			02-08-72	51.9	106.1	
11S/15E-33P01 M		158.0	10-08-71	81.1	76.9	5001
			02-06-72	47.8	110.4	
12S/15E-14L01 M	1	165.1	10-04-71	64.7	102.3	5001
			02-08-72	57.1	109.9	
13S/16E-02C01 M		194.0	10-06-71	83.0	111.0	5001
			02-09-72	62.1	131.9	
FRESNO I O				52215		
12S/20E-14A01 M	4	365.0	10-01-71	NM-1		5001
			02-07-72	91.8	273.2	
12S/21E-34C01 M	1	387.7	02-29-72	41.4	346.3	5631
12S/22E-21E01 M	4	473.0	10-01-71	18.8	454.2	5001
			02-07-72	17.5	455.5	
13S/17E-22B01 M	1	220.8	02-02-72	37.9	182.9	5631
			03-01-72	NM-1		
13S/17E-33D01 M		211.0	10-05-71	57.7	153.3	5001
			02-03-72	53.6	157.4	
13S/18E-10P01 M		258.0	10-04-71	51.9	206.1	5001
			02-04-72	53.7	204.3	
13S/18E-34C01 M		245.0	10-04-71	57.1	187.9	5001
			02-04-72	52.8	192.2	
13S/19E-09Q01 M	1	288.2	03-01-72	67.0	221.2	5001
13S/19E-16K01 M		290.0	10-04-71	NM-1		5001
			02-04-72	73.0	217.0	
13S/20E-02L01 M	1	339.0	03-01-72	93.8	242.9	5631
13S/23E-31P01 M	1	406.5	03-01-72	28.8	377.7	5631
14S/18E-08J01 M	1	227.4	03-01-72	64.2	163.2	5631
14S/19E-20B02 M	1	245.0	03-01-72	46.4	198.6	5631
14S/20E-06J01 M	1	279.4	03-01-72	61.9	217.5	5631
15S/20E-13E02 M	1	282.5	03-01-72	32.5	250.0	5631
CITY OF FRESNO				52216		
13S/20E-21J01 M	4	310.0	04-00-72	97.0	213.0	5200
13S/20E-23B01 M	4	325.0	04-00-72	93.0	232.0	5200
13S/20E-28E01 M	1	299.3	04-00-72	86.3	213.0	5200
13S/20E-35M02 M	1	305.3	04-00-72	84.3	221.0	5200
14S/20E-10M01 M	1	291.4	04-00-72	75.0	216.4	5200
FRESNO SLOUGH AREA				52217		
14S/15E-25N02 M		160.0	10-13-71	33.5	126.5	5001
			02-11-72	25.0	135.0	
14S/16E-03C01 M		177.0	10-13-71	NM-3		5001
			02-14-72	63.4	113.6	

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
FRESNO SLOUGH AREA				52217		
14S/16E-08D01 M		165.0	10-12-71	62.5	102.5	5001
			02-14-72	NM-1		
14S/16E-22N01 M	1	163.0	10-13-71	31.1	132.9	5001
			02-14-72	23.8	140.2	
14S/17E-25A01 M	1	211.0	10-05-71	102.2	107.8	5001
			02-11-72	98.9	111.1	
15S/16E-12C03 M		169.5	10-04-71	54.4	115.1	5001
			01-11-72	39.5	131.5	
			02-09-72	39.7	129.8	
15S/17E-22R01 M	1	187.0	10-07-71	119.7	65.3	5001
			02-11-72	111.1	73.9	
15S/18E-07A02 M	1	204.0	10-04-71	NM-5		5001
			02-03-72	111.8	92.2	
16S/18E-03J01 M		206.0	02-15-72	136.5	69.5	5050
16S/18E-27C01 M	1	198.0	02-15-72	127.5	70.5	5050
16S/19E-34P01 M		220.0	02-15-72	107.0	113.0	5050
17S/17E-12H01 M		199.0	01-06-72	182.5	16.5	5050
17S/18E-23A02 M		200.0	02-16-72	82.5	117.0	5050
CONSOLIDATED I D				52218		
14S/22E-22N01 M	1	355.7	03-00-72	27.6	328.1	5636
15S/19E-24N01 M	1	246.6	03-00-72	77.0	168.0	5636
15S/20E-28A01 M	1	264.8	03-00-72	47.4	216.6	5636
15S/21E-15C01 M	1	301.2	03-00-72	24.5	276.5	5636
15S/22E-16A01 M	1	337.0	03-00-72	23.0	314.0	5636
15S/22E-29D01 M	1	321.9	03-00-72	28.3	292.7	5636
16S/19E-14A01 M	1	235.5	03-00-72	96.0	139.0	5636
16S/20E-22N01 M	1	247.7	03-00-72	62.6	185.4	5636
16S/21E-22N01 M	1	271.0	03-00-72	42.7	228.3	5636
16S/22E-23R01 M	1	297.5	03-00-72	24.9	272.1	5636
17S/22E-03C01 M	1	286.0	03-00-72	24.1	261.9	5636
ALTA I D				52219		
14S/23E-36R01 M	1	391.0	02-29-72	56.5	334.5	5637
14S/24E-31P01 M	1	395.0	02-29-72	50.8	344.2	5001
15S/23E-23A02 M	1	358.0	02-29-72	44.9	313.1	5637
15S/24E-22D01 M	1	388.0	03-01-72	31.3	356.7	5637
16S/23E-23E01 M	1	314.0	02-29-72	23.0	291.0	5637
16S/24E-21J01 M	1	336.0	03-01-72	26.4	309.6	5637
16S/25E-29A01 M	1	364.0	03-01-72	34.5	329.5	5637
17S/22E-25A01 M	1	276.0	03-01-72	35.5	239.5	5637
17S/22E-25J01 M	1	275.0	03-01-72	35.5	239.5	5637
17S/24E-15A03 M		302.0	09-27-71	40.3	261.7	5001
			01-31-72	21.5	280.5	
17S/25E-10C01 M	1	335.0	03-02-72	32.9	302.1	5637
17S/25E-18R01 M	1	321.0	03-02-72	53.8	267.2	5637
LOWER KINGS RIVER AREA				52220		
17S/20E-20D01 M		223.0	02-14-72	69.5	153.5	5050
17S/21E-11K01 M		257.0	02-14-72	30.0	227.0	5050
18S/19E-35J02 M	3	211.0	02-16-72	134.0	77.0	5050
18S/20E-16A01 M		230.0	02-18-72	11.0	219.0	5050
18S/21E-10R01 M		254.0	10-05-71	72.4	181.6	5050
			02-07-72	58.8	195.2	
19S/19E-25A01 M		208.0	02-17-72	2.5	205.5	5050
20S/22E-19M02 M		211.0	02-16-72	NM-5		5050
ORANGE COVE I D				52221		
14S/24E-29C02 M	4	430.5	10-04-71	41.5	389.0	5001
			02-02-72	37.3	393.2	
14S/25E-30D01 M	1	510.0	09-29-71	24.5	485.5	5001
			02-02-72	25.3	484.7	
15S/24E-14D01 M	4	405.0	10-04-71	NM-1		5001
			02-02-72	NM-9		
16S/25E-04C02 M	4	415.0	10-05-71	13.3	401.7	5001
			02-02-72	14.5	400.5	

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
STONE CORRAL I D				52222		
17S/25E-01D01 M	1	355.0	09-28-71	25.9	329.1	5001
			02-01-72	22.7	332.3	
			03-02-72	19.3	335.7	
17S/26E-07R01 M		364.0	09-28-71	9.3	354.7	5001
			02-01-72	8.5	355.5	
IVANHOE I D				52223		
17S/25E-27R01 M	4	350.0	09-29-71	NM-1		5001
			01-24-72	74.1	275.9	
17S/25E-35M01 M	4	349.0	09-29-71	72.0	277.0	5001
			01-24-72	64.7	284.3	
17S/25E-36G01 M	4	365.0	09-29-71	66.0	299.0	5001
			01-24-72	62.5	302.5	
17S/26E-32N01 M	4	385.0	09-29-71	60.5	324.5	5001
			01-24-72	57.1	327.9	
17S/26E-34D01 M	4	416.0	09-29-71	57.0	359.0	5001
			01-24-72	56.5	359.5	
KAWEAH DELTA W C D				52224		
17S/25E-15P01 M	1	340.0	09-28-71	93.9	246.1	5001
			02-01-72	81.2	258.8	
17S/26E-17R02 M	1	385.0	09-28-71	15.3	369.7	5001
			02-01-72	15.7	369.3	
17S/27E-34P01 M	1	473.0	09-29-71	NM-1		5001
			02-01-72	13.2	456.8	
18S/22E-29A01 M		251.0	09-27-71	88.2	162.8	5001
			01-28-72	86.3	164.7	
18S/23E-12H01 M		282.5	09-27-71	64.0	218.5	5001
			01-28-72	46.5	236.0	
18S/23E-34A01 M		271.0	09-30-71	104.8	166.2	5001
			01-28-72	97.9	173.1	
18S/24E-26A01 M	4	312.5	09-30-71	51.5	260.5	5001
			01-24-72	57.0	255.0	
18S/25E-12G01 M	4	363.0	09-30-71	44.5	318.5	5001
			01-27-72	43.5	319.5	
18S/25E-33F01 M	4	338.0	09-30-71	39.0	299.0	5001
			01-27-72	43.2	294.8	
18S/26E-27E01 M	4	390.0	09-23-71	19.5	370.5	5001
			02-01-72	14.5	375.5	
18S/26E-30N01 M		367.0	09-23-71	20.5	346.5	5001
			02-01-72	22.5	344.5	
19S/22E-01N02 M	1	245.0	09-28-71	69.5	175.5	5001
			02-03-72	65.5	179.5	
19S/22E-36E01 M	1	234.0	09-20-71	78.0	156.3	5001
			01-25-72	76.9	157.4	
19S/25E-07K01 M		320.0	09-24-71	43.0	275.0	5001
			01-28-72	29.0	289.0	
19S/26E-34R02 M		341.0	09-28-71	84.9	256.1	5001
			01-30-72	61.8	279.2	
20S/22E-10C01 M	1	226.0	09-27-71	110.7	116.3	5001
			02-02-72	91.4	135.6	
TULARE I D				52225		
19S/23E-14R01 M	1	270.0	10-07-71	NM-1		5001
			03-09-72	NM-1		
19S/23E-32H01 M	1	250.5	10-07-71	88.4	162.1	5001
			02-22-72	NM-1		
19S/24E-16P01 M		290.0	10-11-71	95.0	195.0	5001
			02-17-72	94.6	195.4	
19S/24E-27D01 M	1	290.0	10-11-71	83.7	206.3	5001
			02-17-72	79.0	211.0	
19S/25E-17A02 M	4	328.0	10-12-71	44.5	283.5	5001
			02-17-72	64.8	263.2	
20S/23E-08B02 M	1	241.0	09-20-71	89.1	151.9	5001
			10-13-71	104.0	137.0	
			01-24-72	84.6	156.4	
			02-23-72	92.6	148.4	
20S/24E-16H01 M		273.0	10-12-71	96.6	176.4	5001
			02-22-72	98.7	174.3	
20S/24E-30J02 M	1	250.0	10-12-71	86.8	163.2	5001
			02-22-72	93.6	156.4	
21S/23E-05R01 M	1	222.0	10-13-71	NM-1		5001
			02-23-72	69.5	152.5	
EXETER I D				52226		
18S/26E-25K01 M	4	436.0	09-27-71	51.3	384.7	5001
			02-01-72	47.3	388.7	
18S/26E-34P02 M	4	391.0	09-27-71	51.0	340.0	5001

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
EXETER I O				52226		
18S/26E-34P02 M	4	391.0	02-01-72	47.9	343.1	5001
18S/27E-29Q01 M	4	447.0	09-27-71	35.0	412.0	5001
			02-01-72	23.3	423.7	
19S/26E-14E01 M	4	375.0	09-27-71	NM-1		5001
			02-01-72	73.2	301.8	
19S/26E-23E01 M	4	359.0	09-28-71	73.3	286.2	5001
			02-01-72	64.9	294.6	
LINDSAY-STRATHMORE I D				52227		
19S/27E-29D01 M	4	385.0	09-27-71	49.1	335.9	5001
			02-01-72	46.8	338.2	
20S/27E-06B01 M	4	372.0	09-27-71	43.0	329.0	5001
			02-01-72	44.4	327.6	
20S/27E-16A01 M	4	426.0	09-27-71	24.2	401.8	5001
			02-01-72	26.0	400.0	
20S/27E-21F01 M	4	414.0	09-27-71	28.5	385.5	5001
			02-01-72	28.4	385.6	
20S/27E-29J01 M	4	406.0	09-27-71	25.6	380.4	5001
			02-01-72	23.4	382.6	
21S/27E-01A01 M		460.0	09-27-71	NM-6		5001
			02-02-72	NM-6		
LINDMORE I D				52228		
20S/26E-01P01 M	4	360.0	09-29-71	74.5	285.5	5001
			01-31-72	64.5	295.5	
20S/26E-22C02 M	4	341.0	09-30-71	89.0	252.0	5001
			01-31-72	93.0	248.0	
20S/26E-24K01 M	4	362.5	09-30-71	54.0	308.5	5001
			01-31-72	44.5	318.0	
20S/26E-32A01 M	4	331.5	09-27-71	85.0	246.5	5001
			09-30-71	93.5	238.0	
			01-27-72	78.7	252.8	
			01-31-72	85.3	246.2	
20S/27E-29E01 M	4	392.0	10-01-71	24.6	367.4	5001
			02-02-72	27.5	364.5	
PORTERVILLE I O				52229		
21S/26E-12A01 M	4	372.0	09-27-71	32.2	339.8	5608
			02-01-72	29.1	342.9	
21S/27E-21C01 M		409.0	09-27-71	22.3	386.7	5001
			02-02-72	20.6	388.4	
21S/27E-28E01 M	4	420.0	09-27-71	25.2	394.8	5001
			02-01-72	18.5	401.5	
22S/26E-01J01 M	4	395.0	09-27-71	75.9	319.1	5608
			02-01-72	67.7	327.3	
22S/27E-06Q01 M	4	397.0	09-27-71	53.1	343.9	5608
			02-01-72	49.9	347.1	
22S/27E-10A01 M	4	455.0	09-27-71	72.6	382.4	5608
			02-01-72	63.3	391.7	
22S/27E-10R01 M	4	467.0	09-27-71	NM-3		5001
			02-01-72	NM-3		
LOWER TULE RIVER I O				52230		
21S/23E-22J01 M	1	221.5	09-28-71	62.5	160.0	5001
			02-04-72	51.8	170.7	
21S/24E-15M01 M	1	253.0	09-28-71	46.6	206.4	5001
			01-31-72	42.5	210.5	
21S/24E-31Q01 M		230.0	09-28-71	65.8	164.2	5001
			01-31-72	66.7	163.3	
21S/24E-35M01 M		251.0	09-30-71	87.2	163.8	5001
			01-31-72	78.6	172.4	
21S/25E-08M01 M		285.0	09-27-71	106.1	179.9	5001
			01-27-72	57.2	228.8	
21S/26E-06G02 M	4	322.0	09-24-71	82.3	239.7	5001
			01-27-72	58.3	263.7	
21S/26E-10E01 M		350.0	09-24-71	44.0	306.0	5001
			01-27-72	43.1	306.9	
22S/24E-09A01 M		245.0	09-30-71	109.0	136.0	5001
			02-02-72	107.5	137.5	
22S/24E-15A01 M	1	251.5	09-30-71	NM-4		5001
			02-02-72	96.0	157.0	
22S/25E-10E01 M		296.0	09-28-71	97.9	198.1	5001
			01-28-72	99.7	196.3	
22S/25E-15A01 M	1	300.5	09-28-71	132.9	170.1	5001
			01-28-72	123.4	179.6	
22S/26E-06A01 M	4	337.0	09-28-71	110.0	227.0	5001
			02-01-72	101.5	235.5	

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
VANDALIA I D				52231		
22S/28E-07Q01 M		524.0	09-27-71	123.2	400.8	5001
			01-27-72	130.5	393.5	
22S/28E-17N01 M		577.0	09-24-71	169.3	407.7	5001
			01-27-72	127.8	449.2	
22S/28E-18A01 M		535.0	09-24-71	136.8	398.2	5001
			01-27-72	107.1	427.9	
SALCELITO I O				52232		
22S/26E-15J01 M	1	371.0	09-23-71	128.8	242.2	5001
			09-28-71	128.5	242.5	
			01-27-72	116.5	254.5	
			02-01-72	115.5	255.5	
23S/26E-02R01 M	4	397.0	09-27-71	152.0	244.0	5001
			02-01-72	143.0	253.0	
23S/26E-03R01 M		381.0	09-23-71	NM-1		5001
			01-27-72	163.3	217.7	
PIXLEY I D				52233		
22S/25E-25N01 M		310.0	09-23-71	209.2	100.8	5001
			01-28-72	169.9	140.1	
23S/23E-02B01 M	1	207.0	09-20-71	34.5	172.5	5001
			01-24-72	NM-6		
23S/24E-16R01 M		222.0	09-20-71	132.8	89.2	5001
			01-25-72	122.9	99.1	
23S/25E-14C01 M	4	300.0	09-22-71	56.7	243.3	5001
			01-25-72	58.0	242.0	
23S/25E-16N04 M	2	263.0	02-07-72	80.8	182.2	5001
23S/26E-08R01 M		345.0	09-23-71	179.7	165.3	5001
			01-27-72	166.1	178.9	
ALPAUGH-ALLENSWORTH AREA				52234		
23S/24E-35A02 M		235.0	09-21-71	208.0	27.0	5001
			01-25-72	136.7	98.3	
24S/23E-05R02 M		210.0	09-24-71	293.9	- 83.9	5001
			01-25-72	NM-1		
24S/23E-21B02 M		205.0	09-24-71	68.0	137.0	5001
			01-25-72	70.2	134.8	
24S/23E-34R01 M	3	206.0	09-24-71	232.5	- 27.5	5001
			01-25-72	208.9	- 3.9	
24S/24E-20R01 M		218.0	09-24-71	NM-1		5001
			01-25-72	173.2	44.8	
24S/24E-22R01 M		233.0	09-24-71	222.0	11.0	5001
			01-25-72	154.7	78.3	
24S/24E-34F01 M		232.0	09-24-71	101.2	130.8	5001
			01-25-72	87.4	144.6	
24S/25E-17R01 M	3	268.0	09-24-71	101.2	166.8	5001
			01-25-72	88.7	179.3	
OELANO-EARLIMART I O				52235		
23S/25E-27J02 M	1	296.0	09-22-71	88.0	208.0	5001
			01-31-72	83.0	213.0	
23S/26E-29P01 M	1	356.5	09-23-71	168.5	188.5	5001
			01-31-72	156.5	200.5	
23S/27E-27G01 M	4	552.0	09-23-71	NM-1		5001
			01-26-72	343.8	208.2	
24S/25E-02M01 M		321.0	09-24-71	91.3	228.7	5001
			01-25-72	90.7	229.3	
24S/25E-10A01 M	3	304.0	09-22-71	124.5	179.5	5001
			01-28-72	104.5	199.5	
24S/25E-33J01 M	1	291.5	09-24-71	35.0	257.0	5001
			01-25-72	63.3	228.7	
24S/26E-05R01 M	4	376.0	09-22-71	164.0	212.0	5001
			01-27-72	156.0	220.0	
24S/26E-20M01 M	4	378.0	09-22-71	148.0	230.0	5001
			01-27-72	127.0	251.0	
24S/26E-29R02 M	1	400.0	09-22-71	134.0	267.0	5000
			01-27-72	122.0	279.0	
24S/26E-32G01 M	1	396.0	09-22-71	112.0	285.0	5001
			01-27-72	104.0	293.0	
24S/26E-34F01 M	5	445.0	02-07-72	202.9	242.1	5000
25S/26E-10B03 M	4	430.0	09-20-71	192.5	237.5	5001
			01-24-72	175.5	254.5	
25S/26E-16P01 M		388.0	09-20-71	81.0	307.0	5000
			01-24-72	83.3	304.7	
25S/27E-22M01 M	4	750.0	09-20-71	NM-1		5001
			01-24-72	449.3	300.7	
			02-23-72	NM-5		

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
SOUTHERN SAN JOAQUIN MUD				52236		
255/25E-36R02 M		335.0	09-20-71	212.4	122.6	5001
			01-25-72	168.2	166.8	
255/26E-28M02 M		414.0	09-21-71	172.9	242.1	5001
			01-27-72	161.1	253.9	
265/26E-16P01 M		443.0	09-23-71	313.0	130.0	5001
			01-27-72	292.2	150.8	
NORTH KERN W S D				52237		
265/25E-15P01 M	3	346.7	09-23-71	258.0	90.0	5000
			01-24-72	183.0	165.0	
265/25E-15R01 M	3	352.3	09-24-71	NM-1		5700
			01-24-72	185.0	167.3	
265/26E-30P01 M	2	392.0	09-24-71	NM-1		5700
			01-24-72	NM-4		
275/25E-01N01 M	3	394.0	09-22-71	114.0	280.0	5000
			01-24-72	120.0	274.0	
275/25E-01N03 M	2	394.0	09-22-71	318.0	76.0	5000
			01-24-72	257.0	137.0	
275/26E-20E01 M	1	435.7	09-22-71	NM-1		5700
			01-28-72	291.0	144.7	
275/27E-30M02 M	4	527.0	09-24-71	460.8	64.2	5001
			01-27-72	NM-9		
285/25E-13L01 M	3	361.1	01-26-72	NM-1		5700
285/26E-21M01 M	3	388.0	09-21-71	284.0	104.0	5000
			01-26-72	186.0	202.0	
285/26E-21M03 M	2	388.0	09-21-71	291.0	97.0	5000
			01-26-72	241.0	147.0	
SHAFTER-WASCO I D				52238		
275/24E-01L02 M		322.0	09-20-71	296.5	25.5	5000
			01-25-72	211.5	110.5	
275/24E-35C01 M	3	316.0	09-22-71	NM-1		5700
			01-25-72	NM-2		
275/25E-28A01 M	3	375.0	09-22-71	279.0	96.0	5000
			01-28-72	243.0	132.0	
285/25E-16P01 M		329.0	09-22-71	NM-5		5000
			01-26-72	195.0	134.0	
KERN RIVER DELTA AREA				52240		
285/26E-29L01 M	3	349.0	09-22-71	NM-5		5700
			09-23-71	176.0	174.0	
			01-26-72	NM-4		
			01-27-72	208.0	142.0	
295/25E-12M03 M	2	330.0	09-24-71	174.5	155.5	5000
			02-03-72	167.5	162.5	
305/25E-17E01 M		300.6	10-02-71	NM-1		5640
			03-00-72	NM-2		
305/25E-22D01 M		308.5	10-02-71	64.2	243.3	5640
			03-00-72	68.9	239.6	
305/26E-22P02 M	2	338.0	09-17-71	94.5	243.5	5000
			01-28-72	84.5	253.5	
305/26E-32B01 M	1	354.4	09-22-71	115.8	237.2	5001
			01-26-72	110.7	242.3	
315/27E-04L01 M	3	341.1	09-22-71	NM-4		5700
			01-26-72	NM-4		
315/27E-28J01 M	1	312.1	09-16-71	65.5	246.5	5121
			01-27-72	80.5	231.6	
315/28E-30M01 M	3	314.7	09-22-71	107.0	207.7	5700
			01-26-72	74.0	240.7	
325/27E-18E01 M	3	292.6	09-21-71	152.0	140.6	5700
			01-26-72	116.0	176.6	
325/28E-04B01 M		301.0	09-21-71	52.7	248.3	5001
			01-24-72	41.5	259.5	
EDISON-MARICOPA AREA				52241		
11N/18W-18M01 S	1	726.0	10-14-71	NM-3		5644
			02-01-72	NM-7		
11N/19W-04M01 S	1	575.9	10-13-71	NM-1		5644
			02-01-72	NM-3		
11N/20W-07Q01 S	3	452.3	09-20-71	317.0	135.3	5700
			01-25-72	309.0	143.3	
11N/20W-24A01 S		730.2	09-20-71	577.0	153.2	5700
			01-25-72	544.0	186.2	
11N/21W-05M01 S	3	515.9	09-20-71	NM-4		5700
			01-25-72	450.0	65.9	
11N/22W-04M01 S	3	529.0	09-20-71	459.0	70.0	5700
			01-25-72	NM-9		

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
EDISON-MARICOPA AREA				52241		
12N/23W-28P01 S		498.0	10-21-71	275.0	223.0	5121
295/29E-33N01 M	1	578.0	09-23-71	443.1	136.9	5644
			01-13-72	431.5	148.5	
305/28E-02R01 M	4	410.0	09-22-71	211.0	200.0	5001
			01-27-72	NM-1		
305/28E-10N01 M		372.0	09-22-71	49.5	323.5	5000
			01-27-72	50.1	322.9	
305/28E-10N04 M		372.0	09-22-71	194.1	178.9	5000
			01-27-72	184.8	188.2	
305/29E-05F01 M		515.0	09-24-71	365.7	149.3	5644
			01-13-72	361.5	153.5	
305/29E-26A01 M	1	628.0	09-24-71	485.6	142.4	5644
			01-13-72	481.0	147.0	
305/30E-20R01 M	1	791.5	09-24-71	NM-7		5644
			01-18-72	NM-7		
315/29E-09A01 M		468.0	10-04-71	NM-3		5644
			01-20-72	NM-3		
315/29E-29A01 M		400.0	09-21-71	164.6	235.4	5001
			01-25-72	156.7	243.3	
315/30E-21G01 M	1	536.0	10-06-71	373.0	163.0	5644
			01-21-72	370.7	165.3	
325/25E-35N02 M	3	442.5	09-15-71	197.0	245.5	5121
			01-26-72	NM-5		
325/28E-23R01 M		386.7	10-07-71	NM-3		5644
			01-26-72	279.6	106.4	
325/29E-19M02 M		416.0	10-08-71	201.3	214.7	5000
			01-26-72	201.6	214.4	
325/29E-19M03 M		416.0	10-08-71	335.3	80.7	5000
			01-26-72	301.4	114.6	
BUENA VISTA W S D				52242		
275/22E-21F02 M		240.0	09-21-71	NM-7		5121
			02-09-72	17.0	223.0	
275/22E-32M01 M	1	241.0	09-22-71	141.0	100.0	5000
			02-09-72	129.0	112.0	
285/22E-09D01 M	3	240.0	09-21-71	9.5	231.5	5000
			01-28-72	11.5	228.5	
285/23E-31R01 M		257.8	10-01-71	34.2	223.6	5640
			03-00-72	51.0	206.8	
295/23E-08A01 M		260.3	10-01-71	34.5	224.5	5640
			03-00-72	62.1	196.9	
295/23E-25J01 M		275.0	10-20-71	73.0	202.0	5050
			01-19-72	NM-6		
			04-19-72	NM-6		
295/23E-27M01 M	1	270.0	09-20-71	45.5	224.5	5000
			02-02-72	45.5	224.5	
305/23E-01Q01 M		276.8	10-02-71	62.2	214.6	5640
			03-00-72	90.0	186.8	
305/24E-02C01 M		287.0	10-02-71	94.0	194.7	5640
			03-00-72	105.7	183.0	
305/24E-04C01 M	1	282.0	09-20-71	78.5	203.5	5000
			01-28-72	77.5	204.5	
315/25E-27F01 M	1	283.0	09-15-71	NM-5		5000
			01-26-72	NM-9		
SEMITROPIC W S D				52243		
255/22E-02N02 M	1	212.0	09-28-71	75.4	136.6	5000
			02-09-72	63.4	148.6	
255/22E-14G01 M		215.0	09-28-71	260.5	- 45.5	5121
			02-09-72	184.5	30.5	
255/23E-28D01 M	1	217.0	09-29-71	109.0	108.0	5000
			02-10-72	99.0	118.0	
255/23E-28D03 M	2	217.0	09-29-71	286.0	- 69.0	5000
			02-10-72	193.0	24.0	
255/24E-10K01 M	1	240.0	09-20-71	57.0	183.0	5001
			01-24-72	65.2	174.8	
255/24E-15H01 M		248.0	09-20-71	79.7	168.3	5000
			01-24-72	77.9	170.1	
255/24E-30H01 M		237.4	09-20-71	NM-3		5001
			09-29-71	NM-4		
			01-24-72	NM-3		
			02-10-72	NM-3		
265/21E-14J01 M	1	237.0	09-23-71	29.0	208.0	5121
			02-08-72	28.0	209.0	
265/22E-10G02 M	1	225.0	09-28-71	NM-4		5000
			02-09-72	NM-4		

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
SEMITROPIC W S D				52243		
26S/23E-02R01 M	2	234.9	09-29-71	170.0	64.9	5121
			02-11-72	164.0	70.9	
26S/24E-23M01 M	2	295.5	09-24-71	NM-1		5700
			01-23-72	NM-4		
27S/23E-01R01 M	1	267.0	09-22-71	97.5	169.5	5000
			02-08-72	98.5	168.5	
27S/23E-01R04 M	2	267.0	09-22-71	180.5	86.5	5000
			02-08-72	223.5	43.5	
27S/23E-01R05 M	2	267.0	09-22-71	177.5	89.5	5000
			02-08-72	221.5	45.5	
27S/23E-08L01 M		258.0	09-22-71	27.0	231.0	5121
			02-08-72	32.0	226.0	
28S/23E-11E01 M		255.0	10-02-71	32.6	222.4	5640
			03-00-72	42.8	212.2	
29S/24E-14R01 M	1	290.0	09-20-71	NM-1		5121
			02-03-72	56.0	234.0	
AVENAL-MCKITTRICK AREA				52244		
23S/19E-26M01 M	1	267.0	10-18-71	NM-9		5050
			01-17-72	NM-9		
			04-17-72	NM-9		
25S/20E-04C01 M	1	260.0	10-19-71	69.0	199.0	5121
			01-18-72	59.0	209.0	
			04-17-72	57.0	211.0	
26S/18E-19B02 M	1	875.0	09-23-71	169.0	706.0	5121
			02-04-72	160.0	715.0	
28S/22E-20M01 M		290.0	10-20-71	69.0	221.0	5050
			01-19-72	65.0	225.0	
			04-19-72	65.0	225.0	
TULARE LAKE-LOST HILLS AREA				52245		
22S/19E-18P02 M	1	255.0	10-18-71	180.0	75.0	5050
			01-17-72	180.0	75.0	
			04-17-72	180.0	75.0	
22S/21E-01J01 M	2	185.5	02-14-72	148.0	37.5	5050
23S/19E-14R01 M	1	235.0	10-18-71	38.3	196.7	5050
			01-17-72	39.1	195.9	
			04-17-72	38.0	197.0	
24S/20E-21A02 M	1	233.0	10-19-71	NM-9		5000
			01-18-72	26.6	206.4	
			04-17-72	26.0	207.0	
24S/21E-15J01 M		211.0	02-14-72	16.0	193.0	5050
24S/21E-26R01 M		210.0	02-14-72	12.0	198.0	5050
24S/22E-28A02 M		207.0	02-14-72	186.0	21.0	5050
24S/22E-35E01 M		213.0	02-14-72	201.0	12.0	5050
25S/21E-30K01 M	1	237.5	10-19-71			5050
			04-17-72	45.5	192.0	
26S/21E-22D01 M	1	281.0	09-23-71	NM-5		5050
			10-19-71	NM-5		
			01-18-72	NM-9		
			04-17-72	NM-6		
CORCORAN I O				52246		
20S/22E-35R01 M		216.0	02-16-72	60.0	156.0 O	5050
21S/22E-21P01 M	2	192.0	02-16-72	NM-5		5050
21S/22E-27A01 M		196.0	02-16-72	9.0	187.0	5050
22S/22E-01B02 M		201.0	02-16-72	11.0	190.0	5050
22S/22E-05L01 M	2	188.0	02-16-72	108.0	80.0	5050
22S/22E-10A01 M		192.0	02-16-72	113.0	79.0	5050
22S/22E-13P01 M		193.0	02-16-72	13.0	180.0	5050
22S/22E-15C01 M		191.0	02-16-72	110.0	81.0	5050
22S/22E-22M01 M		191.0	02-16-72	118.0	73.0	5050
MENDOTA-MURON AREA				52247		
13S/12E-22N01 M		280.0	10-05-71	123.5	156.5	5001
			03-07-72	129.3	150.7	
14S/12E-12M01 M	2	338.0	01-08-72	480.0	- 142.0	5000
14S/15E-18E02 M		178.0	10-14-71	220.3	- 40.8	5050
			01-07-72	199.8	- 21.8	
			02-11-72	203.5	- 24.0	
15S/13E-11C02 M	2	345.0	01-08-72	500.0	- 155.0	5000
15S/14E-15E04 M		238.0	10-14-71	281.2	- 45.7	5000
			01-11-72	314.5	- 78.5	
			02-08-72	309.9	- 74.4	
15S/15E-22Q01 M		176.0	10-14-71	108.1	66.9	5001

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
MENDOTA-MURON AREA				52247		
15S/15E-22Q01 M		176.0	02-08-72	109.3	65.7	5001
15S/16E-17L01 M		165.0	10-13-71	42.6	122.4	5000
			02-08-72	43.5	121.5	
15S/16E-28A04 M		169.0	10-13-71	166.8	1.9	5000
			01-11-72	158.5	10.0	
			02-09-72	156.7	11.8	
16S/15E-34N04 M	2	334.0	01-07-72	485.7	- 151.7	5000
17S/14E-13R01 M	1	457.0	01-05-72	NM-3		5050
17S/16E-30A03 M		290.0	10-06-71	65.5	224.5	5000
			02-07-72	64.8	225.2	
17S/16E-30A06 M		302.0	10-06-71	458.5	- 156.5	5000
			02-07-72	447.5	- 157.5	
17S/17E-20N01 M	3	228.0	01-06-72	327.0	- 99.0	5050
18S/17E-12N01 M	2	253.0	01-06-72	NM-1		5050
19S/18E-15M01 M	2	274.0	01-05-72	377.0	- 103.0	5050
20S/17E-32F01 M		447.0	01-04-72	627.0	- 180.0	5050
20S/18E-06Q01 M	2	317.9	01-08-72	503.8	- 186.9	5000
20S/18E-11N01 M	3	277.0	01-04-72	NM-1		5050
20S/18E-11Q01 M	2	268.0	01-08-72	432.3	- 164.3	5000
POSO SOIL C O				52248		
10S/13E-06R01 M	1	110.0	01-05-72	10.1	99.9	5529
11S/13E-26A01 M	1	128.0	01-05-72	9.9	118.1	5529
11S/13E-33L01 M	1	126.0	01-05-72	8.6	117.4	5529
12S/13E-13J01 M	1	140.0	01-05-72	10.3	129.7	5529
TERRA BELLA I O				52250		
22S/27E-29J03 M		532.0	09-24-71	108.5	423.5	5001
			01-27-72	94.5	437.5	
23S/27E-01A01 M		506.0	09-23-71	75.6	430.4	5001
			01-26-72	84.3	421.7	
23S/27E-05A01 M	4	450.0	09-23-71	NM-4		5001
			01-26-72	147.8	302.2	
MERCED BOTTOMS				52254		
07S/10E-23K01 M	2	80.0	02-17-72	6.3	73.7	5050
07S/10E-23K02 M	1	80.0	02-17-72	3.9	76.1	5050
07S/12E-27F01 M		110.5	02-16-72	13.9	96.6	5050
08S/12E-19D01 M		90.0	02-16-72	12.0	78.0	5050
09S/12E-01C01 M	1	110.5	02-14-72	32.0	78.5	5050
09S/14E-01B01 M	2	180.0	02-23-72	64.0	116.0	5050
09S/14E-01B02 M	3	180.0	02-23-72	66.5	113.5	5050
09S/14E-01B03 M	1	180.0	02-23-72	38.0	142.0	5050
09S/14E-06D01 M		141.0	10-05-71	44.6	96.4	5050
			10-08-71	41.5	99.5	
			02-03-72	44.2	96.8	
			02-23-72	43.8	97.2	
OAKFIELD W D				52265		
12S/20E-13A01 M	4	388.0	02-07-72	114.9	273.1	5001
12S/21E-07A02 M	4	405.5	10-04-71	122.5	283.0	5001
			02-07-72	118.8	286.7	
12S/21E-18A03 M	4	390.5	10-04-71	91.5	299.0	5001
			02-07-72	90.7	299.8	
KINGS COUNTY W D				52266		
17S/20E-36R02 M	1	243.0	10-05-71	17.4	225.6	5129
			01-28-72	16.7	226.3	
17S/22E-11P01 M	1	283.0	09-17-71	33.1	249.9	5129
			01-28-72	26.0	257.0	
17S/22E-35N01 M	1	266.0	09-17-71	43.2	222.8	5129
			01-28-72	38.4	227.6	
18S/21E-17N01 M	1	238.0	10-05-71	11.2	226.8	5129
			02-07-72	10.5	227.5	
18S/22E-21M01 M	1	258.0	09-30-71	80.2	177.8	5129
			02-08-72	75.0	183.0	
18S/22E-36P01 M		245.0	09-27-71	104.3	140.7	5001
			09-30-71	103.4	141.6	
			01-28-72	74.6	170.4	
			01-31-72	74.9	170.1	
18S/23E-28B01 M	1	263.0	09-30-71	100.9	162.1	5129

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
KINGS COUNTY W D				52266		
18S/23E-28B01 M	1	263.0	01-31-72	83.8	179.2	5129
19S/21E-20N01 M	1	225.0	09-29-71	16.2	208.8	5129
			02-01-72	12.9	212.1	
19S/22E-04B01 M	1	245.0	09-28-71	129.2	115.8	5129
			01-25-72	78.0	167.0	
19S/22E-19A01 M	2	235.0	09-20-71	116.7	118.3	5001
			01-25-72	80.4	154.6	
19S/22E-23A01 M		240.0	09-20-71	111.0	129.5	5129
			09-27-71	77.2	163.3	
			01-25-72	72.2	168.3	
			02-03-72	77.5	163.0	
20S/21E-03A01 M	1	222.0	09-27-71	12.5	207.5	5001
			02-02-72	13.0	207.0	
20S/21E-05E01 M	2	219.0	10-04-71	158.2	60.8	5129
			01-25-72	148.8	70.2	
20S/22E-10M02 M	2	225.0	09-20-71	125.8	99.2	5129
			01-25-72	117.0	108.0	
PLEASANT VALLEY				52269		
20S/15E-25D01 M		319.0	01-18-72	232.0	387.0	5050
20S/15E-32A01 M		675.0	01-18-72	228.0	447.0	5050
21S/16E-02N01 M		570.0	01-17-72	NM-1		5050
21S/16E-07N01 M		634.0	01-17-72	260.0	374.0	5050
21S/16E-35D01 M		682.0	01-17-72	337.0	345.0	5050

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE

APPENDIX D

SURFACE WATER QUALITY

INTRODUCTION

Appendix D summarizes the surface water quality and electrical conductivity data for the San Joaquin Valley for 1972 water year (October 1, 1971 through September 30, 1972). These data were obtained from analyses of water samples from 26 surface water quality sampling stations and 6 electrical conductivity recorders. Water samples are collected by the Department of Water Resources and the U. S. Corps of Engineers. Electrical conductivity recorders are serviced and maintained by the Department of Water Resources.

Laboratory analyses of surface water samples performed by the Department of Water Resources' Laboratory reported herein were performed in accordance with the 13th Edition of "Standard Methods for the Examination of Water and Waste Water".

Each station in this appendix has been assigned an eight-digit identification number. The first two digits denote the drainage basin as shown below. The remaining digits identify each station.

Hydrographic Area B
San Joaquin River Basin

B0	San Joaquin Valley Floor
B3	Stanislaus River
B4	Tuolumne River
B5	Merced River
B6	Fresno-Chowchilla Rivers
B7	San Joaquin River
B8	San Joaquin Valley on West Side

Hydrographic Area C
Tulare Lake Drainage Basin

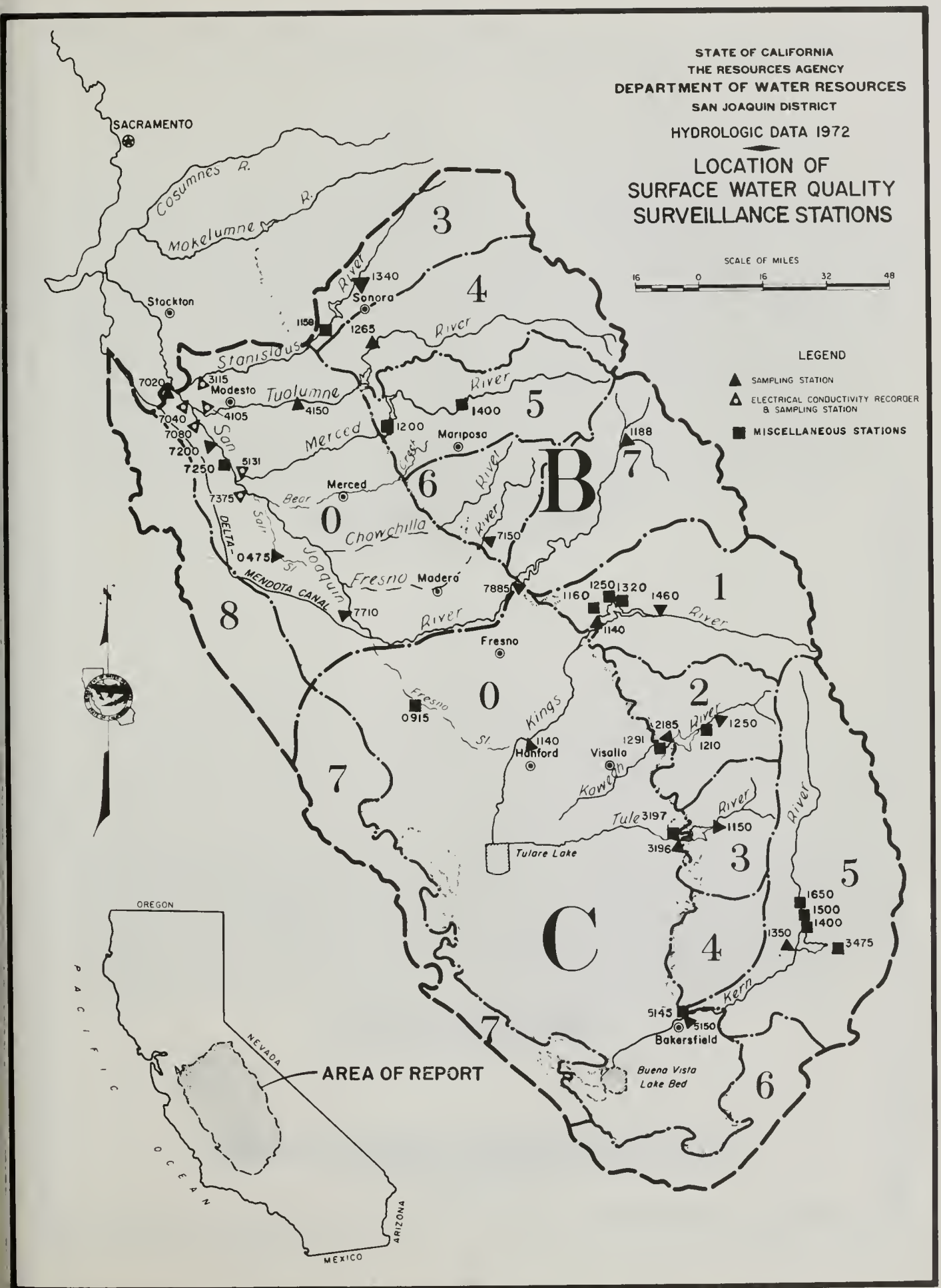
C0	Tulare Lake Valley Floor
C1	Kings River
C2	Kaweah River
C3	Tule River
C4	Greenhorn Mountains
C5	Kern River
C6	Tehachapi Mountains
C7	Tulare Lake Basin on West Side

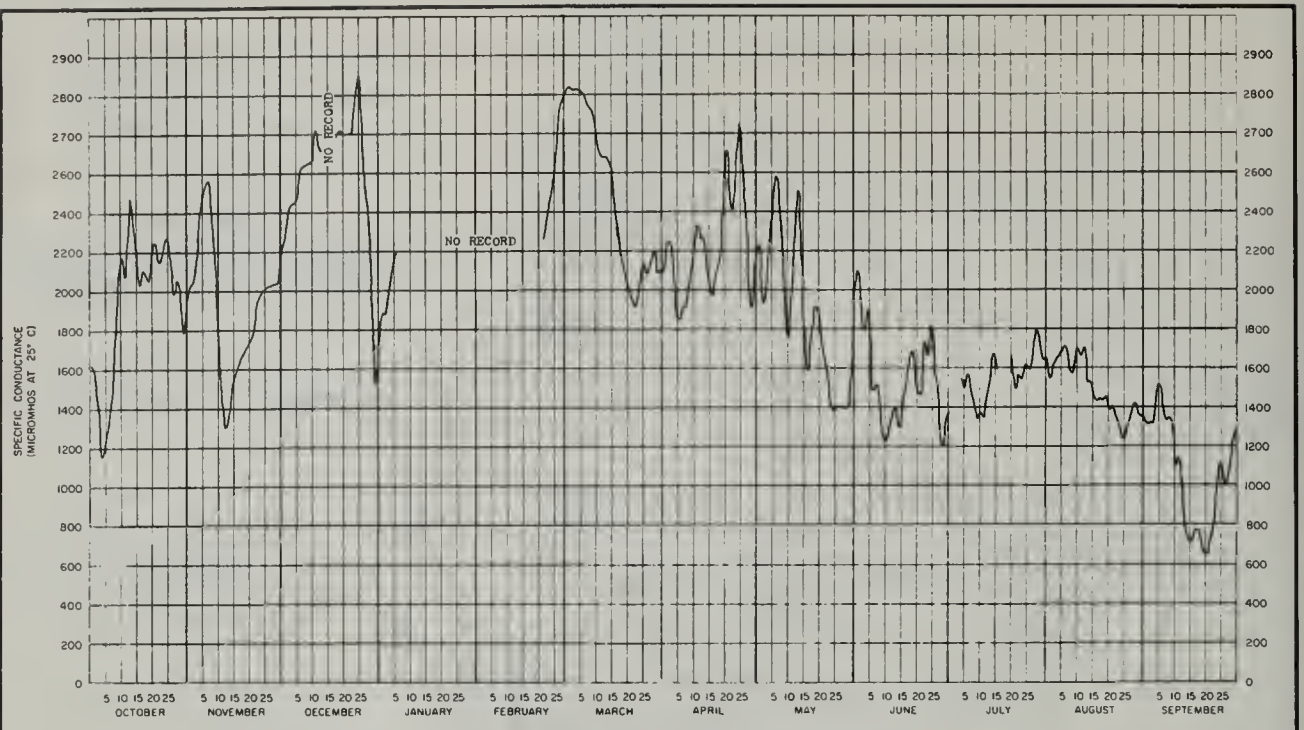
TABLE D-1

SURVEILLANCE STATION DATA AND INDEX FOR SURFACE WATER

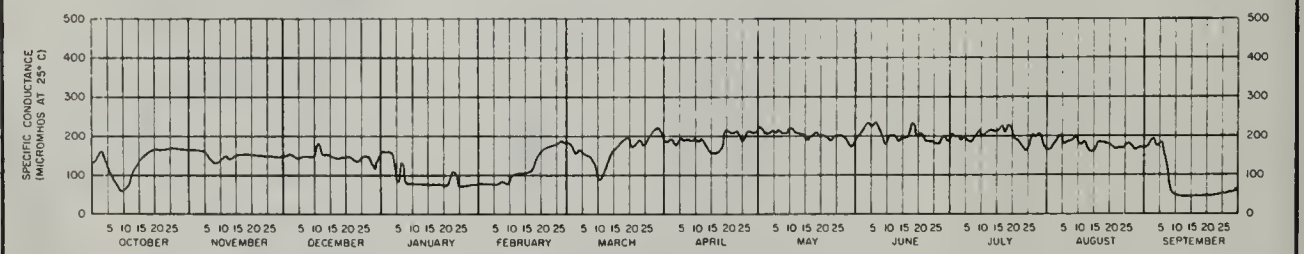
	Station Identification Number	Location[a]	Period[b] of Record	Frequency[c] of Sampling	Sampled[e] By	Analysis on Page
Big Creek above Pine Flat Reservoir	C11320.00	12S/25E-04	July 1960		DWR & USACE	171, 173, 176
Fresno River near Daulton	B67150.00	9S/19E-34	January 1958	Q	DWR	170
Fresno Slough at Butte Avenue	C00915.30	16S/17E-08			DWR	170
Isabella Reservoir near Isabella	C51400.00	26S/33E			USACE	171, 174, 176
Kaweah River, Inflow to Lake Kaweah	C21210.30	17S/28E-34			USACE	171, 173, 176
Kaweah River below Terminus Dam	C02185.00	17S/27E-25	September 1961	Q	DWR & USACE	170, 173, 176
Kaweah River at Three Rivers	C21250.00	17S/28E-27	April 1951	S[d]	DWR	
Kern River near Bakersfield	C05150.00	29S/28E-09	April 1951	Q	DWR	171
Kern River above Calloway Weir	C05145.30	29S/28E-09			DWR	173, 178
Kern River below Isabella Dam	C51350.00	26S/33E-30	September 1955	S	DWR & USACE	171, 173, 176
Kern River at Kernville	C51500.00	25S/33E-15	October 1963	S	DWR & USACE	171, 174, 176
Kern River near Kernville	C51650.00	25S/33E	September 1955		DWR	174, 178
Kern River South Fork near Onyx	C53475.00	26S/35E-04			DWR	174, 178
Kings River below North Fork	C11460.00	12S/26E-21	September 1955	S	DWR & USACE	171, 173, 176
Kings River below Peoples Weir	C01140.00	17S/22E-01	April 1951	Q	DWR	170
Kings River below Pine Flat Reservoir	C11140.00	13S/24E-02	September 1955	Q	DWR & USACE	171, 173, 176
Lake Kaweah near Lemoncove	C02191.00	17S/28E			USACE	171, 173, 176
Lake Success near Success	C03197.00	21S/28E			USACE	171, 173, 176
Merced River below Exchequer Dam	B51200.00	4S/15E-14	April 1959	Q	DWR	170
Merced River above Lake McClure	B51400.00	3S/18E-36	March 1966	S[d]	DWR	
Merced River at Milliken Bridge	B05131.00	6S/09E-36	April 1951	M[d]	DWR	166
Pine Flat Reservoir near Piedra	C11160.00	12S/24E			USACE	171, 173, 176
Salt Slough at San Luis Ranch	B00475.00	9S/11E-07	November 1958	Q[d]	DWR	
San Joaquin River at Crows Landing	B07250.00	6S/09E-07	January 1962	S[d]	DWR	
San Joaquin River at Fremont Ford Bridge	B07375.00	7S/09E-24	July 1955	M[d]	DWR	166
San Joaquin River at Friant Dam	B07885.00	11S/21E-07	April 1951	Q	DWR	170
San Joaquin River near Grayson at Laird Slough	B07080.00	4S/07E-24	April 1959	M[d]	DWR	167
San Joaquin River at Kerckoff Lake	B71188.00	9S/22E-18		S[d]	DWR	
San Joaquin River at Maze Road Bridge	B07040.00	3S/07E-33	April 1951	M[d]	DWR	168
San Joaquin River near Mendota	B07710.00	13S/15E-07	April 1951	M[d]	DWR	
San Joaquin River at Patterson Bridge	B07200.00	5S/08E-15	January 1962	S[d]	DWR	
San Joaquin River near Vernalis	B07020.00	3S/06E-13	April 1951	M	DWR	170, 173, 176, 178
Stanislaus River at Koetitz Ranch	B03115.00	3S/07E-02	April 1951	M[d]	DWR	168
Stanislaus River above Melones Reservoir	B31340.50	2N/14E-09	March 1966	S[d]	DWR	
Stanislaus River below Tullock Dam	B31158.10	1S/12E-02	July 1956	Q	DWR	170
Sycamore Creek above Pine Flat Reservoir	C11250.00	12S/25E-06			USACE	171, 173, 176
Tule River near Springville	C31150.00	21S/29E-15	November 1963	S	USACE	171, 173, 176
Tule River below Success Dam	C03196.00	21S/28E-35	July 1952	Q	DWR & USACE	171, 173, 176
Tuolumne River above Don Pedro Reservoir	B41265.50	1S/15E-20	March 1966	S[d]	DWR	
Tuolumne River at Hickman Bridge near Waterford	B04150.00	3S/11E-34	April 1951	Q	DWR	170
Tuolumne River at Tuolumne City	B04105.00	4S/08E-12	April 1951	M[d]	DWR	167

a. Locations are in reference to Mt. Diablo Base and Meridian.
b. Beginning of record.
c. M - Monthly, Q - Quarterly, S - Semiannually, all others irregular.
d. Samples were collected by DWR but not submitted to Lab. No deviation from historical record indicated.
e. DWR - Department of Water Resources; USACE - United States Army Corps of Engineers.


STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1972
LOCATION OF
SURFACE WATER QUALITY
SURVEILLANCE STATIONS
SCALE OF MILES
16 0 16 32 48
LEGEND
SAMPLING STATION
ELECTRICAL CONDUCTIVITY RECORDER & SAMPLING STATION
MISCELLANEOUS STATIONS
SACRAMENTO
Cosumnes R.
Mokelumne R.
Stockton
Stanislaus River
Tuolumne River
San Joaquin River
Merced River
Bear Creek
Chowchilla River
Fresno River
Kings River
Kaweah River
Tule River
Kern River
Modesto
Merced
Mariposa
Sonora
Madera
Fresno
Hanford
Visalia
Tulare Lake
Bakersfield
Buena Vista Lake Bed
DELTA-MENDOTA CANAL
7020
3115
4105
7040
7080
7200
7250
5131
7375
0475
4150
1340
1158
1265
1400
1200
7150
7885
7710
1160
1250
1320
1460
1140
0915
2185
1250
1210
1291
1140
3197
1150
3196
1650
1500
1400
1350
3475
5145
5150
1188
OREGON
NEVADA
ARIZONA
MEXICO
PACIFIC OCEAN
AREA OF REPORT
0
1
2
3
4
5
6
7
8
B
C



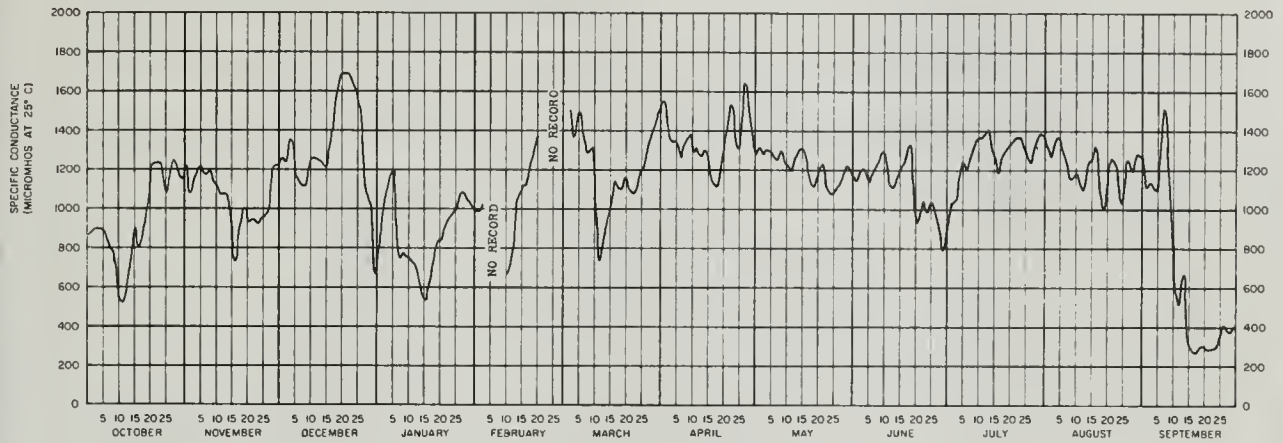
SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE
STA. No. B07375.00 RIVER MILE 129.5



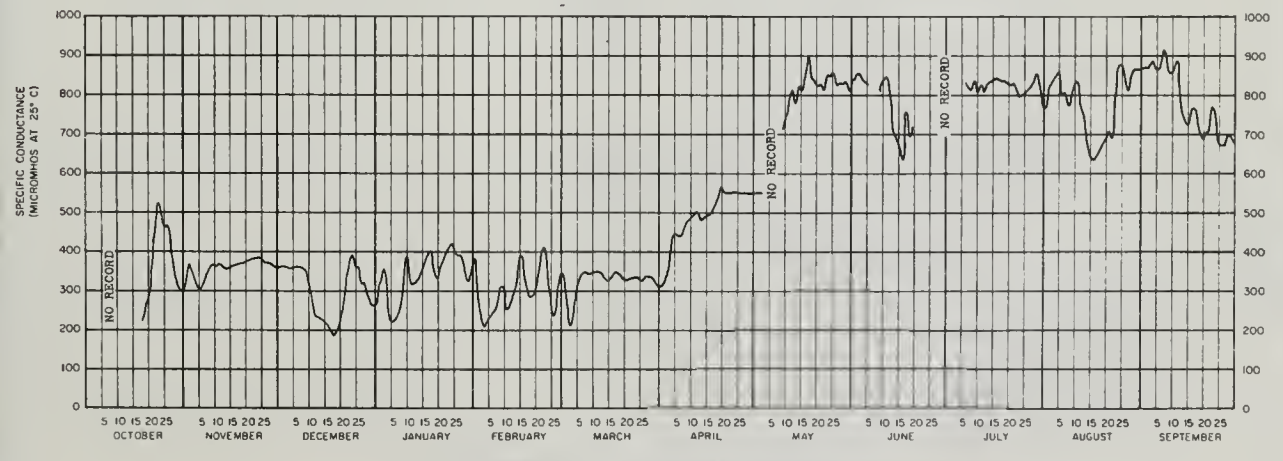
MERCED RIVER AT MILLIKEN BRIDGE
STA. No. B05131.00 RIVER MILE 11.65

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1972

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1972



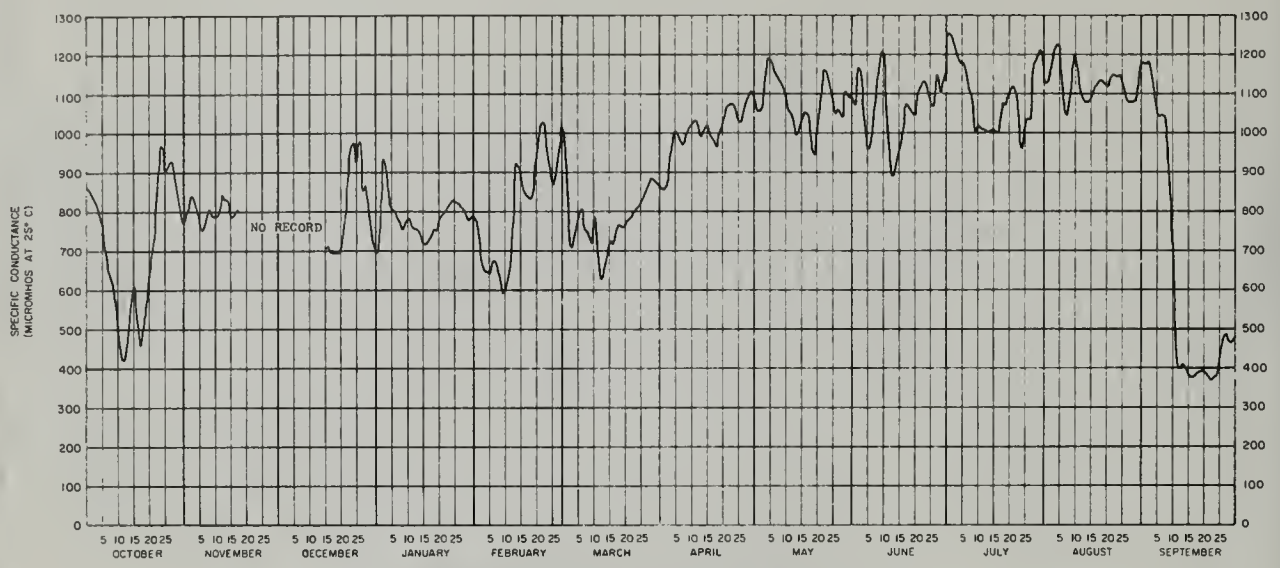
SAN JOAQUIN RIVER NEAR GRAYSON AT LAIRD SLOUGH
STA. No. B07080.00 RIVER MILE 96.05



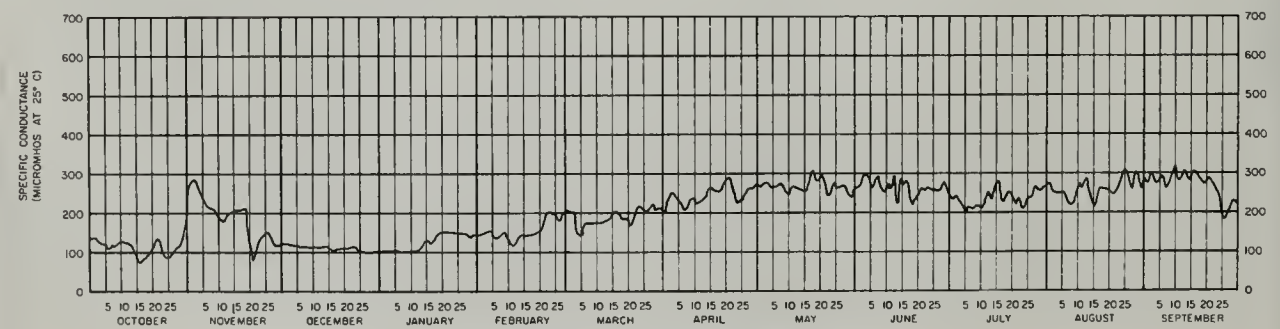
TUOLUMNE RIVER AT TUOLUMNE CITY
STA. No. B04105.00 RIVER MILE 3.35

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1972

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1972



SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE
STA. No. B07040.00 RIVER MILE 81.95



STANISLAUS RIVER AT KOETITZ RANCH
STA. No. B03115.00 RIVER MILE 9.4

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1972

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1972

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

This table presents analyses performed by the Department of Water Resources' Bryte Laboratory, the U. S. Geological Survey's Sacramento or Salt Lake City Laboratory, or the U. S. Army Corps of Engineers' Laboratory.

The sampler and laboratory codes are as follows:

5000	U. S. Geological Survey
5002	U. S. Army Corps of Engineers
5050	Department of Water Resources

The following are definitions of chemical symbols and abbreviations used in this table.

Chemical Symbols

CA	Calcium
MG	Magnesium
NA	Sodium
K	Potassium
CO_3	Carbonate
HCO_3	Bicarbonate
SO_4	Sulfate
CL	Chloride
NO_3	Nitrate
F	Fluoride
B	Boron
SIO_2	Silica

Abbreviations

TEMP	Temperature
DO	Dissolved Oxygen
SAT	Percent Saturation
GH	Gage Height
Q	Flow
FLD	Field Determination
LAB	Laboratory
EC	Specific Electrical Conductance in micromhos
pH	Measure of acidity or alkalinity of water
TDS	Total Dissolved Solids
SUM	Summation of analyzed constituents
TH	Total Hardness
NCH	Non-carbonate Hardness
TURB	Turbidity in Turbidity Units
SAR	Sodium Absorption Ratio

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER B	F SIO2	TDS SUM	TH NCH	TURB SAR
	80	4150.00			TUOLUMNE RIVER AT HICKMAN BRIDGE NR WATERFORD																
06/28/72	5050				8.2	455	27	12	53	--	0	104	--	99	.0	--	--		118	
0830	5050				8.1	506	1.35	.99	2.31		.00	1.70		2.79	.00		--		32	2.1
							29	21	50			38		62						
	80	7020.00			SAN JOAQUIN RIVER NEAR VERNALIS															
10/14/71	5050		7.9	68.9F	7.5	500	23	11	47	2.6	0	99	30	66	1.3	.13	.1		100	20E
1500	5000		87	20.5C	7.1	445	1.15	.90	2.04	.07	.00	1.62	.62	1.86	.02		19.0	249	22	2.0
							28	22	49	2		39	15	45						
11/17/71	5050		10.0	50.9F	7.4	750	32	16	76	2.9	0	129	58	100	1.2	.05	.1		150	8E
1500	5000		89	10.5C	7.4	664	1.60	1.32	3.31	.07	.00	2.11	1.21	2.82	.02		21.0	371	41	2.7
							25	21	53	1		34	20	46						
12/15/71	5050		10.7		7.3		26	13	60	2.2	0	96	52	84	.8	.19	.0		120	6E
1700	5000				7.4	531	1.30	1.07	2.61	.06	.00	1.57	1.08	2.37	.01		17.0	302	40	2.4
							26	21	52	1		31	21	47						
01/12/72	5050			43.7F	7.2	450	20	9.3	42	2.8	0	78	49	53	.7	.17	.1		88	10E
1520	5000			6.5C	7.5	387	1.00	.76	1.83	.07	.00	1.28	1.02	1.49	.01		16.0	231	24	1.9
							27	21	50	2		34	27	39						
02/16/72	5050		11.0	53.6F	7.6	700	32	15	75	2.5	0	107	80	91	1.2	.38	.2		140	10E
1500	5000		102	12.0C	7.7	675	1.60	1.23	3.26	.06	.00	1.75	1.67	2.57	.02		18.0	368	54	2.7
							26	20	53	1		29	28	43						
03/15/72	5050	10.34	9.2	65.3F	7.5	760	39	18	84	3.9	0	129	88	120	1.4	.36	.2		170	30A
1140	5000		98	18.5C	7.8	761	1.95	1.48	3.65	.10	.00	2.11	1.83	3.38	.02		23.0	441	66	2.8
							27	21	51	1		29	25	46						
04/12/72	5050	9.88	10.1	62.6F	6.7	1000	50	26	110	4.3	0	174	98	160	1.8	.39	.3		230	40A
1215	5000		104	17.0C	7.3	991	2.50	2.14	4.79	.11	.00	2.85	2.04	4.51	.03		24.0	560	90	3.1
							26	22	50	1		30	22	48						
06/23/72	5050		9.0	69.8F	8.4		62	30	140	5.0	3.0	204	110	220	.2	.43	.2		280	60A
0745	5000		100	21.0C	8.4	1240	3.09	2.47	6.09	.13	.10	3.34	2.29	6.20	.00		13.0	684	106	3.7
							26	21	52	1	1	28	19	52						
07/20/72	5050	8.85	8.5	71.6F	8.2	1250	60	31	130	5.5	0	202	100	230	.8	.42	.3		280	90A
0845	5000		96	22.0C	7.7	1260	2.99	2.55	5.66	.14	.00	3.31	2.08	6.49	.01		21.0	678	112	3.4
							26	22	50	1		28	17	55						
08/10/72	5050	8.43	10.9	80.6F	8.2	1080	58	29	130	6.2	0	209	100	220	.6	.44	.3		260	90A
1100	5000		135	27.0C	8.2	1200	2.89	2.38	5.66	.16	.00	3.43	2.08	6.20	.01		15.0	662	92	3.5
							26	21	51	1		29	18	53						
09/21/72	5050	11.55	6.4	66.2F	7.3	280	21	8.9	41	3.1	0	96	25	54	.6	.13	.2		89	30A
0830	5000		69	19.0C	7.0	400	1.05	.73	1.78	.08	.00	1.57	.52	1.52	.01		16.0	217	11	1.9
							29	20	49	2		43	14	42						
	80	7885.00			SAN JOAQUIN RIVER AT FRIANT DAM															
06/27/72	5050				7.6	45	3.3	.7	3.5	--	0	16	--	2.8	1.3	--	--		11	
0800	5050				6.8	45	.16	.06	.15		.00	.26		.08	.02		--		0	0.5
							43	16	41			72		22	6					
	83	1158.10			STANISLAUS RIVER BELOW TULLOCK DAM															
06/28/72	5050				7.9	99	9.0	4.7	6.0	--	0	51	--	4.6	.0	--	--		42	
0930	5050				7.7	114	.45	.39	.26		.00	.84		.13	.00		--		0	0.4
							41	35	24			87		13						
	85	1200.00			MERCED RIVER BELOW EXCHEQUER DAM															
06/28/72	5050				8.1	32	4.0	.9	1.6	--	0	18	--	.9	.0	--	--		14	
1130	5050				7.2	40	.20	.07	.07		.00	.30		.03	.00		--		0	0.2
							59	21	21			91		9						
	86	7150.00			FRESNO RIVER NR DAULTON															
06/27/72	5050				8.2	163	9.7	1.7	14	--	0	39	--	23	.0	--	--		31	
0710	5050				7.6	155	.48	.14	.61		.00	.64		.65	.00		--		0	1.1
							39	11	50			50		50						
	C0	0915.30			FRESNO SLOUGH AT BUTTE AVENUE															
06/21/72	5050			80 F		2000	34	10	246	--	0	326	--	86	9.7	1.10	.8		126	
	5050			27 C	7.9	1280	1.70	.82	10.70		.00	5.34		2.43	.16		--		0	9.5
							13	6	81			'67		31	2					
	C0	1140.00			KINGS RIVER BELOW PEOPLES WEIR															
06/27/72	5050				7.4	33	3.3	1.3	2.0	--	0	17	--	.0	.0	--	--		14	
1800	5050				7.1	38	.16	.11	.09		.00	.28		.00	.00		--		0	0.2
							44	31	25			100								
	C0	2185.00			KAWEAH RIVER BELOW TERMINUS DAM															
11/10/71	5002		10.6	57.2F	7.6	160	17	1.0	9.0	--	1.0	70	4.0	4.0	3.0	.10	.1	90	47	
	5050	34	104	14.0C			.85	.08	.39		.03	1.15	.08	.11	.05		5.0	79	0	0.6
							64	6	30		2	81	6	8	4					
04/19/72	5002		11.0	57 F	7.1	48	8.0	4.0	2.0	--	0	38	2.0	2.0	2.2	.13	.0	40	36	
1530	5002	73	108	14 C			.40	.33	.09		.00	.62	.04	.06	.04		1.0	40	6	0.1
							49	40	11			82	5	8	5					
06/27/72	5050				7.6	44	6.0	.9	2.0	--	0	25	--	.1	.0	--	--		19	
1100	5050				7.1	50	.30	.07	.09		.00	.41		.00	.00		--		0	0.2
							65	15	20			100								

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD PH	LABORATORY EC	MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB SAR
							MILLIGRAMS PER LITER										MILLIGRAMS PER LITER			
							PERCENT REACTANCE VALUE													
	C0	2191.00				LAKE KAWEAH NEAR LEMONCOVE														
11/10/71	5002		8.6	54.5F	7.6	160	17	2.0	11	--	0	75	5.0	4.0	4.0	.10	.1	82	51	
	5050		80	12.5C			.85	.16	.48		.00	1.23	.10	.11	.06		7.0	87	0	0.7
		50					57	11	32			82	7	7	4					
	C0	3196.00				TULE RIVER BELOW SUCCESS DAM														
11/10/71	5002		10.0	56.3F	7.6	336	38	7.0	20	--	9.0	162	5.0	9.0	5.2	.10	.1	212	124	
	5050	48	97	13.5C			1.90	.58	.87		.30	2.66	.10	.25	.08		21.0	194	0	0.8
							57	17	26		9	78	3	7	2					
04/19/72	5002		11.5	52 F	7.3	198	49	9.0	8.0	--	11	159	6.0	11	1.3	.13	.0	174	159	
1035	5002	31	106	11 C			2.45	.74	.35		.37	2.61	.12	.31	.02		4.0	178	11	0.3
							69	21	10		11	76	3	9	1					
06/27/72	5050				8.0	270	34	5.3	17	--	0	163	--	7.8	.0	--	--		107	
1245	5050				7.9	285	1.70	.44	.74		.00	2.67		.22	.00		--		0	0.7
							59	15	26			92		8						
	C0	3197.00				LAKE SUCCESS NEAR SUCCESS														
11/10/71	5002		6.9	56.3F		38	7.0	18	--	7.0	167	5.0	7.0	4.8	.10	.1	182	124		
	5050		66	13.5C			1.90	.58	.78		.23	2.74	.10	.20	.08		28.0	197	0	0.7
		40					58	18	24		7	82	3	6	2					
	C0	5150.00				KERN RIVER NR BAKERSFIELD														
06/27/72	5050				7.9	160	8.1	2.2	12	--	0	48	--	4.2	.0	--	--		29	
1600	5050				7.6	116	.40	.18	.52		.00	.79		.12	.00		--		0	1.0
							36	16	47			87		13						
	C1	1140.00				KINGS RIVER BELOW PINE FLAT RESERVOIR														
11/11/71	5002		10.6	55.4F	7.6	50	5.0	1.0	3.0	--	0	23	3.0	2.0	1.7	.10	.1	38	17	
	5050		102	13.0C			.25	.08	.13		.00	.38	.06	.06	.03		2.0	29	0	0.3
							54	17	28			72	11	11	6					
04/20/72	5002	1.82	12.5	55 F	7.1	40	5.0	3.0	3.0	--	1.0	25	2.0	2.0	8.0	.13	.0	34	25	
1350	5002	225	121	13 C			.25	.25	.13		.03	.41	.04	.06	.13		2.0	38	3	0.3
							40	40	21		4	61	6	9	19					
06/27/72	5050				7.3	28	3.6	.2	2.2	--	0	13	--	.9	.0	--	--		10	
0910	5050				6.8	34	.18	.02	.10		.00	.21		.03	.00		--		0	0.3
							60	7	33			88		13						
	C1	1160.00				PINE FLAT RESERVOIR NEAR PIEDRA														
11/11/71	5002		1.2	46.4F	6.6	70	6.0	1.0	6.0	--	0	38	1.0	2.0	2.6	.10	.1	52	19	
	5050		10	8.0C			.30	.08	.26		.00	.62	.02	.06	.04		2.0	39	0	0.6
		240					47	13	41			84	3	8	5					
	C1	1250.00				SYCAMORE CREEK ABOVE PINE FLAT RESERVOIR														
04/20/72	5002	0.80	12.2	59.9F	7.6	190	24	10	--	--	11	157	9.0	16	10.6	.86	.0	206	101	
1200	5002	1.7	126	15.5C			1.20	.82			.37	2.57	.19	.45	.17		11.0		0	
											10	69	5	12	5					
	C1	1320.00				BIG CREEK ABOVE PINE FLAT RESERVOIR														
04/20/72	5002	1.72	12.4	52 F	7.2	48	6.0	5.0	--	--	0	43	1.0	4.0	10.2	.13	.0	66	36	
	5002	22	116	11 C			.30	.41			.00	.70	.02	.11	.16		7.0		1	
												71	2	11	16					
	C1	1460.00				KINGS RIVER BELOW NORTH FORK														
04/20/72	5002	4.39	13.0	50 F	7.0	30	4.0	3.0	--	--	0	24	3.0	2.0	1.8	.13	.0	24	22	
1025	5002	1080	118	10 C			.20	.25			.00	.39	.06	.06	.03		2.0		3	
												72	11	11	6					
	C2	1210.30				KAWEAH RIVER, INFLOW TO LAKE KAWEAH														
04/19/72	5002		10.9	59 F	7.4	42	8.0	3.0	--	--	0	35	1.0	2.0	1.3	.13	.0	42	32	
1500	5002	348	111	15 C			.40	.25			.00	.57	.02	.06	.02		2.0		4	
												85	3	9	3					
	C3	1150.00				TULE RIVER NR SPRINGVILLE														
04/18/72	5002	3.83	11.0	65.3F	8.3	150	26	8.0	--	--	9.0	107	4.0	4.0	--	.86	.0	146	98	
1445	5002	60	120	18.5C			1.30	.66			.30	1.75	.08	.11			5.0		0	
	C5	1350.00				KERN RIVER BELOW ISABELLA DAM														
11/09/71	5002		11.3	50 F	7.6	120	3.0	5.0	13	--	1.0	42	7.0	5.0	2.3	.10	.2	90	28	
	5050	7.0	108	10 C			.15	.41	.57		.03	.69	.15	.14	.04		11.0	68	0	1.1
							13	36	50		3	66	14	13	4					
04/18/72	5002		11.4	55 F	7.7	90	12	5.0	10	--	2.0	54	9.0	7.0	2.2	.13	.0	80	51	
1000	5002	6.0	117	13 C			.60	.41	.44		.07	.89	.19	.20	.04		8.0	82	3	0.6
							41	28	30		5	64	14	14	3					
	C5	1400.00				ISABELLA RESERVOIR NEAR ISABELLA														
11/09/71	5002		11.1	50 F	7.6	120	4.0	5.0	13	--	1.0	47	9.0	5.0	5.9	.20	.1	100	31	
	5050		98	10 C			.20	.41	.57		.03	.77	.19	.14	.10		4.0	70	0	1.0
		70					17	35	48		2	63	15	11	8					
	C5	1500.00				KERN RIVER AT KERNVILLE														
04/18/72	5002	3.95	11.3	52.7F	7.5	72	10	4.0	--	--	0	50	7.0	5.0	1.8	.13	.0	62	41	
1115	5002	600	103	11.5C			.50	.33			.00	.82	.15	.14	.03		4.0		1	
												72	13	12	3					

TABLE D-3

MINOR ELEMENT ANALYSES OF SURFACE WATER

Table D-3 presents minor element analyses performed by the Department of Water Resources' Laboratory, the U. S. Geological Survey's Laboratory, or the U. S. Army Corps of Engineers' Laboratory.

The sampler and laboratory codes are as follows:

5000 U. S. Geological Survey
5002 U. S. Army Corps of Engineers
5050 Department of Water Resources

Values followed by "D" represent dissolved concentrations. All others represent total concentrations.

TABLE D-3

MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS IN MILLIGRAMS PER LITER: BARIUM / CADMIUM	CHROM (HEX) / CHROM (ALL)	COPPER / IRON		LEAD / MANGANESE	MERCURY / SELENIUM	SILVER / ZINC
	B0	7020.00		SAN JOAQUIN RIVER NEAR VERNALIS								
10/14/71	5050					--	--	--		--	--	--
1500	5000		500	7.5	--	--	--	.020	D	--	--	--
11/17/71	5050					--	--	--		--	--	--
1500	5000		750	7.4	--	--	--	.020	D	--	--	--
12/15/71	5050					--	--	--		--	--	--
1700	5000			7.3	--	--	--	.030	D	--	--	--
1/12/72	5050					--	--	--		--	--	--
1520	5000		450	7.2	--	--	--	.020	D	--	--	--
2/16/72	5050					--	--	--		--	--	--
1500	5000		700	7.6	--	--	--	.020	D	--	--	--
3/15/72	5050					--	--	--		--	--	--
1140	5000		760	7.5	--	--	--	.010	D	--	--	--
4/12/72	5050					--	--	--		--	--	--
1215	5000		1000	7.6	--	--	--	.020	D	--	--	--
6/23/72	5050					--	--	--		--	--	--
0745	5000			8.4	--	--	--	.040	D	--	--	--
7/20/72	5050					--	--	--		--	--	--
0845	5000		1250	8.2	--	--	--	.030	D	--	--	--
8/10/72	5050					--	--	--		--	--	--
1100	5000		1080	8.2	--	--	--	.010	D	--	--	--
9/21/72	5050					--	--	--		--	--	--
0830	5000		280	7.3	--	--	--	.080	D	--	--	--
	C0	2185.00		KAWEAH RIVER BELOW TERMINUS DAM								
11/10/71	5002		34	14.0C		--	.01	.03		.01	--	--
	5002		160	7.6	.0014	--	--	--		.01	--	.03
4/19/72	5002		73	14 C		--	--	--		--	--	--
1530	5002		48	7.1	0.0008	--	--	0.06	D	0.01	--	--
	C0	2191.00		LAKE KAWEAH NEAR LEMONCOVE								
11/10/71	5002			12.5C		--	.01	.05		.01	--	--
	5002	S0	160	7.6	.0017	--	--	--		.01	--	.04
	C0	3196.00		TULE RIVER BELOW SUCCESS DAM								
11/10/71	5002		48	13.5C		--	.01	.04		.01	--	--
	5002		336	7.6	.0030	--	--	--		.01	--	.04
4/19/72	5002		31	11 C		--	--	--		--	--	--
1035	5002		198	7.3	0.0013	--	--	0.02	D	0.03	--	--
	C0	3197.00		LAKE SUCCESS NEAR SUCCESS								
11/10/71	5002			13.5C		--	.01	.06		.01	--	--
	5002	40	300	7.6	.0036	--	--	--		.03	--	.06
	C0	5145.30		KERN RIVER ABOVE CALLOWAY WEIR								
10/05/71	5050			62 F		0.1	--	--		0.00	0.000	--
0900	5050		180	7.4	0.00	0.00	--	--		--	0.00	--
	C1	1140.00		KINGS RIVER BELOW PINE FLAT RESERVOIR								
11/11/71	5002			13.0C		--	.01	.03		.01	--	--
	5002		50	7.6	.0011	--	--	--		.01	--	.04
4/20/72	5002		225	13 C		--	--	--		--	--	--
1350	5002		40	7.1	0.0006	--	--	0.01	D	0.01	--	--
	C1	1160.00		PINE FLAT RESERVOIR NEAR PIEDRA								
11/11/71	5002			8.0C		--	.01	.04		.02	--	--
	5002	240	70	6.6	.0015	--	--	--		.17	--	.04
	C1	1250.00		SYCAMORE CREEK ABOVE PINE FLAT RESERVOIR								
4/20/72	5002		1.7	15.5C		--	--	--		--	--	--
1200	5002		190	7.6	0.0008	--	--	0.02	D	0.01	--	--
	C1	1320.00		BIG CREEK ABOVE PINE FLAT RESERVOIR								
4/20/72	5002		22	11 C		--	--	--		--	--	--
	5002		48	7.2	0.0005	--	--	0.02	D	0.01	--	--
	C1	1460.00		KINGS RIVER BELOW NORTH FORK								
4/20/72	5002		1080	10 C		--	0.01	0.02		0.02	0.0009	--
1025	5002		30	7.0	0.0007	--	--	0.02	D	3.	--	0.27
	C2	1210.30		KAWEAH RIVER, INFLOW TO LAKE KAWEAH								
4/19/72	5002		348	15 C		--	0.01	0.03		0.03	0.0008	--
1500	5002		42	7.4	0.0007	--	--	0.01	D	0.01	--	0.03
	C3	1150.00		TULE RIVER NR SPRINGVILLE								
4/18/72	5002		60	18.5C		--	0.01	0.03		0.01	0.0012	--
1445	5002		150	8.3	0.0012	--	--	0.02	D	0.01	--	0.05
	C5	1350.00		KERN RIVER BELOW ISABELLA DAM								
10/04/71	5050			64 F		0.1	--	--		0.00	0.000	--
1510	5050		100	8.4	0.00	0.00	--	--		--	0.01	--
11/09/71	5002		7	10 C		--	.01	.03		.01	--	--
	5002		120	7.6	.0085	--	--	--		.01	--	.04

TABLE D-3 (Continued)

MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS IN MILLIGRAMS PER LITER BARIUM CADMIUM	CHROM (HEX) CHROM (ALL)	COPPER IRON		LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
	CS	1350.00		KERN RIVER BELOW ISABELLA DAM						CONTINUED		
4/18/72	S002		6	13 C		--	--	--		--	--	--
1115	S002		90	7.7	0.0047	--	--	0.02	D	0.01	--	--
	CS	1400.00		ISABELLA RESERVOIR NEAR ISABELLA								
11/09/71	S002			10 C		--	.01	.04		.07	--	--
	S002	70	120	7.6	.0083	--	--	--		.02	--	.04
	CS	1500.00		KERN RIVER AT KERNVILLE								
4/18/72	S002		600	11.5C		--	0.01	0.04		0.02	0.0012	--
1115	S002		72	7.5	0.0036	--	--	--		--	--	0.01
	CS	1650.00		KERN RIVER NEAR KERNVILLE								
10/04/71	S050			55 F		0.1	--	--		0.00	0.000	--
1420	S050		165	8.0	0.00	0.00	--	--		--	0.00	--
	CS	3475.00		KERN RIVER SOUTH FORK NEAR ONYX								
10/04/71	S050			68 F		0.1	--	--		0.00	0.000	--
1330	S050		435	8.0	0.00	0.00	--	--		--	0.01	--

TABLE D-4

SUPPLEMENTAL MINOR ELEMENT ANALYSES OF SURFACE WATER

Table D-4 presents supplemental minor element analyses performed by the Department of Water Resources' Laboratory, the U. S. Geological Survey's Laboratory, or the U. S. Army Corps of Engineers' Laboratory.

The sampler and laboratory codes are as follows:

5000 U. S. Geological Survey
5002 U. S. Army Corps of Engineers
5050 Department of Water Resources

Values followed by "D" represent dissolved concentrations. All others represent total concentrations.

TABLE D-4

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	CONSTITUENTS IN MILLIGRAMS PER LITER ALUMINUM	ANTIMONY BERYLLIUM	BISMUTH COBALT	GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM
	B0	7020.00		SAN JOAQUIN RIVER NEAR VERNALIS							
10/14/71 1500	5050 5000		500	7.5	--	-- --	-- --	-- --	.060 D --	-- .320 D	-- --
11/17/71 1500	5050 5000		750	7.4	--	-- --	-- --	-- --	.007 D --	-- .430 D	-- --
12/15/71 1700	5050 5000			7.3	--	-- --	-- --	-- --	.010 D --	-- .430 D	-- --
1/12/72 1520	5050 5000		450	7.2	--	-- --	-- --	-- --	.0 D --	-- .260 D	-- --
2/16/72 1500	5050 5000		700	7.6	--	-- --	-- --	-- --	.010 D --	-- .400 D	-- --
3/15/72 1140	5050 5000		760	7.5	--	-- --	-- --	-- --	.010 D --	-- .500 D	-- --
4/12/72 1215	5050 5000		1000	7.6	--	-- --	-- --	-- --	.010 D --	-- .610 D	-- --
6/23/72 0745	5050 5000			8.4	--	-- --	-- --	-- --	.020 D --	-- .750 D	-- --
7/20/72 0845	5050 5000		1250	8.2	--	-- --	-- --	-- --	.010 D --	-- .250 D	-- --
8/10/72 1100	5050 5000		1040	8.2	--	-- --	-- --	-- --	.020 D --	-- .760 D	-- --
9/21/72 0830	5050 5000		280	7.3	--	-- --	-- --	-- --	.0 D --	-- .220 D	-- --
	C0	2185.00		KAWEAH RIVER BELOW TERMINUS DAM							
11/10/71	5002		34	14.0C		-- --	-- --	-- --	-- --	-- --	-- --
	5002		160	7.6	1.2	-- --	-- --	-- --	-- --	-- --	-- --
	C0	2191.00		LAKE KAWEAH NEAR LEMONCOVE							
11/10/71	5002			12.5C		-- --	-- --	-- --	-- --	-- --	-- --
	5002	50	160	7.6	1.9	-- --	-- --	-- --	-- --	-- --	-- --
	C0	3196.00		TULE RIVER BELOW SUCCESS DAM							
11/10/71	5002		48	13.5C		-- --	-- --	-- --	-- --	-- --	-- --
	5002		336	7.6	3.0	-- --	-- --	-- --	-- --	-- --	-- --
	C0	3197.00		LAKE SUCCESS NEAR SUCCESS							
11/10/71	5002			13.5C		-- --	-- --	-- --	-- --	-- --	-- --
	5002	40	300	7.6	9.4	-- --	-- --	-- --	-- --	-- --	-- --
	C1	1140.00		KINGS RIVER BELOW PINE FLAT RESERVOIR							
11/11/71	5002			13.0C		-- --	-- --	-- --	-- --	-- --	-- --
	5002		50	7.6	0.6	-- --	-- --	-- --	-- --	-- --	-- --
	C1	1160.00		PINE FLAT RESERVOIR NEAR PIEDRA							
11/11/71	5002			8.0C		-- --	-- --	-- --	-- --	-- --	-- --
	5002	240	70	6.6	1.8	-- --	-- --	-- --	-- --	-- --	-- --
	C1	1250.00		SYCAMORE CREEK ABOVE PINE FLAT RESERVOIR							
4/20/72	5002		1.7	15.5C		-- --	-- --	-- --	-- --	-- --	-- --
1200	5002		190	7.6	1.5	-- --	-- --	-- --	-- --	-- --	-- --
	C1	1320.00		BIG CREEK ABOVE PINE FLAT RESERVOIR							
4/20/72	5002		22	11 C		-- --	-- --	-- --	-- --	-- --	-- --
	5002		48	7.2	0.7	-- --	-- --	-- --	-- --	-- --	-- --
	C1	1460.00		KINGS RIVER BELOW NORTH FORK							
4/20/72	5002		1080	10 C		-- --	-- --	-- --	-- --	-- --	-- --
1025	5002		30	7.0	1.9	-- --	-- --	-- --	-- --	-- --	-- --
	C2	1210.30		KAWEAH RIVER, INFLOW TO LAKE KAWEAH							
4/19/72	5002		348	15 C		-- --	-- --	-- --	-- --	-- --	-- --
1500	5002		42	7.4	1.6	-- --	-- --	-- --	-- --	-- --	-- --
	C3	1150.00		TULE RIVER NR SPRINGVILLE							
4/18/72	5002		60	18.5C		-- --	-- --	-- --	-- --	-- --	-- --
1445	5000		150	8.3	2.6	-- --	-- --	-- --	-- --	-- --	-- --
	C5	1350.00		KERN RIVER BELOW ISABELLA DAM							
11/09/71	5002		7	10 C		-- --	-- --	-- --	-- --	-- --	-- --
	5002		120	7.6	1.2	-- --	-- --	-- --	-- --	-- --	-- --
	C5	1400.00		ISABELLA RESERVOIR NEAR ISABELLA							
11/09/71	5002			10 C		-- --	-- --	-- --	-- --	-- --	-- --
	5002	70	120	7.6	0.6	-- --	-- --	-- --	-- --	-- --	-- --
	C5	1500.00		KERN RIVER AT KERNVILLE							
4/18/72	5002		600	11.5C		-- --	-- --	-- --	-- --	-- --	-- --
1115	5002		72	7.5	2.9	-- --	-- --	-- --	-- --	-- --	-- --

TABLE D-5

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

Table D-5 presents analyses which do not appear on Tables D-2, D-3, and D-4. The following are definitions of abbreviations used in this table.

Abbreviations

BOD	Biochemical Oxygen Demand (5-day at 20°C)
COD	Chemical Oxygen Demand
NH_3+N	Ammonia plus Organic Nitrogen (as N)
TOT P	Total Phosphorus (as P)
DPO_4	Filterable Orthophosphate
LAB	Laboratory
	5000 U. S. Geological Survey
	5050 Department of Water Resources

TABLE D-5

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER
(Milligrams per liter)

STATION NO.:	DATE	: LAB	: BOD	: COD	:NH_3+N:	TOT P	: DPO4
B07020.00	71-10-14	5050	4.2	0			
	71-10-14	5000				0.28	
	71-11-17	5050	2.4	0			
	71-11-17	5000				0.21	
	71-12-15	5050	2.3	0			
	71-12-15	5000				0.15	
	72-1-12	5000				0.12	
	72-2-16	5050	4.4	2			
	72-2-16	5000				0.17	
	72-3-15	5050	4.0	8			
	72-3-15	5000				0.28	
	72-4-12	5050	4.8	16			
	72-4-12	5000				0.44	
	72-5-24	5050	9.3	30			
	72-6-23	5050	10.0	39			
	72-6-23	5000				0.51	
	72-7-20	5050	7.4	61			
	72-7-20	5000				0.42	
	72-8-10	5050	11.0	30			
	72-8-10	5000				0.43	
	72-9-21	5050	5.8	25			
C05145.30	71-10-5	5050			0.3	0.05	0.03
C51650.00	71-10-4	5050			0.1	0.01	0.01
C53475.00	71-10-4	5050			0.2	0.07	0.03

APPENDIX E

GROUND WATER QUALITY DATA

INTRODUCTION

Appendix E summarizes the ground water quality data for the San Joaquin Valley for the 1972 water year (October 1, 1971, through September 30, 1972). These data were obtained from analyses of water samples from approximately 150 wells.

Laboratory analyses of ground water samples reported herein were performed in accordance with the 13th Edition of "Standard Methods for Examination of Water and Waste Water".

A complete description of the State Well Numbering System, used in this report to indicate the location of the wells sampled, is contained in Appendix C, "Ground Water Data", page 126. A 40-acre tract may contain a well that has not been assigned a state number or may have a well that is of a temporary nature. These are numbered in the 80 series; i.e., 15S/22E-27K80M.

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

This table presents data resulting from the collection and analysis of ground water by various agencies and laboratories cooperating with this program. The code numbers listed below will identify thes program cooperators as they appear in this tabulation.

5050	California Department of Water Resources
5060	California Department of Public Health
5112	Fresno County Health Department
5121	Kern County Water Agency
5123	Tulare County Health Department
5132	Fresno County Water Works Districts
5215	Calwa Water District
5701	California Water Service Company
5702	Individual Owner
5703	Valley Waste Disposal Company
5720	Bakeman Water Company
5800	Terminal Testing Laboratory
5802	Twining Laboratory
5803	Hornkohl Laboratory
5806	B. C. Laboratory
5819	Brown and Caldwell Laboratory

Chemical Symbols

B	Boron	K	Potassium
Ca	Calcium	Mg	Magnesium
Cl	Chloride	Na	Sodium
CO_3	Carbonate	NO_3	Nitrate
F	Fluoride	SIO_2	Silica
HCO_3	Bicarbonate	SO_4	Sulfate

Abbreviations

EC	Specific Electrical Conductance
NCH	Non-Carbonate Hardness
SAR	Sodium Adsorption Ratio
SUM	Sum of Mineral Constituents
TH	Total Hardness
TDS	Total Dissolved Solids
TEMP	Water Temperature at Time of Field Sampling F Fahrenheit C Celsius
TIME	Pacific Standard Time on a 24-Hour Clock
PH	Measure of Acidity or Alkalinity
TURB	Turbidity in Turbidity Units

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB		TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	MILLIGRAMS PER LITER F	SIO2	TDS SUM	TH NCH	TURB SAR
	S	CENTRAL VALLEY																		
	S-00.A	NUT IN DEFINED BASIN																		
	07S/21E-14C02	M																		
10/18/71	S702					181	4.8	798	--	12	61	141	1442	.0	--	--		2692	473	
	S802			9.0	4700	9.04	.39	34.71		.40	1.00	2.94	40.69	.00		14.0		2624	402	16.0
						20	1	79		1	2	7	90							
	S-22	SAN JOAQUIN VALLEY																		
	02S/10E-14F02	M																		
11/02/71	S702					22	7.5	12	4.0	2.4	109	6.1	9.0	10.0	--	.2		152	86	0.45
	S819			8.0	235	1.10	.62	.52	.10	.08	1.79	.13	.25	.16		45.0		172	0	0.6
						47	26	22	4	3	74	5	10	7						
	03S/09E-33D01	M																		
04/05/72	S702					60	9.0	148	5.6	0	150	2.0	265	3.0	--	.1		648	187	1.0
	S819			7.8	1105	2.99	.74	6.44	.14	.00	2.46	.04	7.47	.05		54.0		620	64	4.7
						29	7	62	1		25		75							
	06S/11E-09D01	M																		
03/14/72	S702					34	19	30	--	0	198	27	28	23.5	--	--		309	165	
	S800			7.8		1.73	1.56	1.32		.00	3.25	.57	.80	.38		30.4		291	2	1.0
						38	34	29			65	11	16	8						
	07S/15E-27D01	M																		
02/22/72	S060					19	8.2	22	5.1	0	92	12	10	14.5	--	.1		224	264	
	S060			7.7		.95	.67	1.00	.13	.00	1.51	.27	.30	.23		--		138	6	1.1
						35	24	36	5		65	12	13	10						
	10S/11E-29L02	M																		
02/17/72	S050		60.0F	7.8	3650	50	92	700	--	0	277	--	211	.0	--	--			503	
1400	S050		15.5C	8.1	3860	2.50	7.57	30.45		.00	4.54		5.95	.00		--			277	13.6
						6	19	75			43		57							
	10S/11E-30K01	M																		
02/17/72	S050		56.0F	6.8	2630	90	86	391	--	0	611	--	380	4.5	--	--			580	
1345	S050		13.3C	7.9	2690	4.49	7.07	17.01		.00	10.01		10.72	.07		--			78	7.1
						16	25	60			48		52							
	10S/11E-31L01	M																		
02/17/72	S050		65.0F	7.4	1425	88	69	119	--	0	342	--	197	5.3	--	--			506	
1230	S050		18.3C	8.0	1470	4.39	5.67	5.18		.00	5.61		5.56	.09		--			223	2.3
						29	37	34			50		49	1						
	10S/11E-32N02	M																		
02/17/72	S050		57.0F	7.6	725	19	19	104	--	0	245	--	58	7.4	--	--			128	
1200	S050		13.9C	8.1	708	.95	1.56	4.52		.00	4.02		1.64	.12		--			0	4.0
						14	22	64			70		28	2						
	13S/12E-09H02	M																		
09/26/72	S050				1600	23	20	305	4.2	0	166	527	98	.5	2.30	.3		1110	140	
1520	S050			7.8	1610	1.15	1.64	13.27	.11	.00	2.72	10.97	2.76	.01		--		1062	4	11.2
						7	10	82	1		17	67	17							
	13S/19E-36E02	M																		
04/06/72	S132					13	8.6	25	--	0	113	11	14	6.2	--	--		178	69	
	S802			7.9		.68	.71	1.11		.00	1.85	.25	.40	.10		38.4		174	0	1.3
						27	28	44			71	10	15	4						
	13S/20E-09F01	M																		
04/06/72	S132					16	10	15	--	0	116	7.0	10	8.4	--	--		189	85	
	S802			7.8		.83	.86	.66		.00	1.90	.15	.30	.14		20.0		145	0	0.7
						35	37	28			76	6	12	6						
	13S/20E-09K01	M																		
04/06/72	S132					18	12	21	--	0	137	9.1	14	9.7	--	--		202	96	
	S802			7.8		.90	1.02	.92		.00	2.25	.19	.40	.16		34.0		186	0	0.9
						32	36	32			75	6	13	5						
	13S/20E-11C01	M																		
04/06/72	S132					28	16	22	--	0	183	16	14	9.7	--	.5		255	138	
	S802			7.7		1.43	1.33	.97		.00	3.00	.33	.40	.16		30.0		227	0	0.8
						38	36	26			77	8	10	4						
	13S/20E-25E02	M																		
04/06/72	S132					34	20	32	--	0	220	28	21	38.1	--	--		367	169	
	S802			7.7		1.73	1.64	1.43		.00	3.61	.60	.60	.61		44.0		328	0	1.1
						36	34	30			67	11	11	11						
	13S/20E-25G02	M																		
04/06/72	S132					28	16	35	--	0	195	24	21	24.0	--	--		311	137	
	S802			7.8		1.40	1.33	1.54		.00	3.20	.50	.59	.39		31.2		276	0	1.3
						33	31	36			68	11	13	8						
	14S/19E-07M01	M																		
08/29/72	S112			7.4		54	36	47	10	--	--	22	18	33.0	--	.1			248	
	S112				650	2.69	2.96	2.04	.26			.46	.51	.53		--				1.2
						34	37	26	3											
	14S/19E-07M80	M																		
08/29/72	S112			7.5		31	19	19	7.0	--	--	11	23	18.0	--	.1			144	
	S112				850	1.55	1.56	.83	.18			.23	.65	.29		--				0.7
						38	38	20	4											
	14S/19E-11H02	M																		
08/30/72	S112			7.5		48	36	40	7.0	--	--	29	37	65.0	--	.1			242	
	S112				610	2.40	2.96	1.74	.18			.60	1.04	1.05		--				1.1
						33	41	24	2											
	14S/19E-12D01	M																		
08/30/72	S112			7.7		13	7.0	15	3.0	--	--	14	4.0	13.0	--	.1			46	
	S112				170	.65	.58	.65	.08			.29	.11	.21		--				0.8
						33	30	33	4											

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB		TEMP	FIELD PH	LAHORATURY EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									B	F	SIO2	TOS SUM	TH NCH	TURB SAM
						CA	MG	NA	K	CO3	MCO3	SO4	CL	NO3						
	5			CENTRAL VALLEY																
	5-22			SAN JOAQUIN VALLEY																
		14S/19E-13R01	M																	
08/29/72	5112			7.4		24	17	18	10	--	--	6.0	30	32.0	--	.1		124		
	5112				320	1.20	1.40	.78	.26			.12	.85	.52		--				0.7
						33	38	21	7											
		14S/19E-14M01	M																	
08/29/72	5112			7.6		48	26	32	7.0	--	--	47	17	84.0	--	.1		178		
	5112				470	2.40	2.14	1.39	.18			.98	.48	1.35		--				0.9
						39	35	23	3											
		14S/19E-14P01	M																	
08/29/72	5112			7.6		77	20	30	6.0	--	--	22	14	33.0	--	.1		140		
	5112				370	3.84	1.64	1.31	.15			.46	.39	.53		--				0.8
						55	24	19	2											
		14S/19E-15R01	M																	
08/29/72	5112			7.6		65	49	67	10	--	--	55	41	178	--	.1		314		
	5112				840	3.24	4.03	2.91	.26			1.15	1.16	2.87		--				1.5
						31	39	28	2											
		14S/19E-17C01	M																	
08/29/72	5112			7.5		33	21	20	8.0	--	--	11	30	19.0	--	.1		160		
	5112				370	1.65	1.73	.87	.20			.23	.85	.31		--				0.7
						37	39	20	4											
		14S/19E-16C01	M																	
08/29/72	5112			7.4		90	39	28	9.0	--	--	25	21	31.0	--	.1		280		
	5112				600	4.49	3.21	1.22	.23			.52	.59	.50		--				0.6
						49	35	13	3											
		14S/19E-22R02	M																	
08/30/72	5112			7.7		94	70	61	10	--	--	87	68	125	--	.1		440		
1145	5112				1025	4.69	5.76	2.65	.26			1.81	1.92	2.02		--				1.2
						35	43	20	2											
		14S/19E-24M01	M																	
08/29/72	5112			7.7		25	19	30	7.0	--	--	18	11	21.0	--	.1		130		
1400	5112				350	1.25	1.56	1.31	.18			.37	.31	.34		--				1.1
						29	36	30	4											
		14S/19E-24N01	M																	
08/29/72	5112			7.5		235	73	55	13	--	--	80	123	41.0	--	.1		516		
1430	5112				1225	11.73	6.00	2.39	.33			1.67	3.47	.66		--				0.8
						57	29	12	2											
		14S/19E-25C01	M																	
08/29/72	5112			7.6		54	36	35	9.0	--	--	21	42	16.0	--	.1		267		
1500	5112				600	2.69	2.96	1.52	.23			.44	1.18	.26		--				0.9
						36	40	21	3											
		14S/19E-25D01	M																	
08/29/72	5112			7.4		56	39	27	10	--	--	22	52	35.0	--	.1		264		
	5112				600	2.79	3.21	1.17	.26			.46	1.47	.56		--				0.7
						38	43	16	3											
		14S/19E-26P01	M																	
08/30/72	5112			7.2		28	18	15	5.0	--	--	8.0	18	4.0	--	.1		136		
0730	5112				300	1.40	1.48	.65	.13			.17	.51	.06		--				0.5
						38	40	18	4											
		14S/19E-27R01	M																	
08/30/72	5112			7.4		29	46	26	7.0	--	--	4.0	4.0	19.0	--	.1		320		
0900	5112				640	1.45	3.78	1.13	.18			.08	.11	.31		--				0.7
						22	58	17	3											
		14S/19E-28P01	M																	
08/30/72	5112			7.4		42	75	67	14	--	--	24	73	7.0	--	.1		440		
0945	5112				1025	2.10	6.17	2.91	.36			.50	2.06	.11		--				1.4
						18	53	25	3											
		14S/19E-29R01	M																	
08/29/72	5112			7.3		36	75	80	10	--	--	20	76	3.0	--	.0		392		
1100	5112				970	1.80	6.17	3.48	.26			.42	2.14	.05		--				1.7
						15	53	30	2											
		14S/19E-30A01	M																	
08/30/72	5112			7.5		22	47	42	10	--	--	23	61	24.0	--	.1		312		
1130	5112				710	1.10	3.87	1.83	.26			.48	1.72	.39		--				1.2
						16	55	26	4											
		14S/19E-31A01	M																	
08/30/72	5112			7.5		45	93	64	14	--	--	32	118	24.0	--	.1		470		
1000	5112				1000	2.25	7.65	2.78	.36			.67	3.33	.39		--				1.3
						17	59	21	3											
		14S/19E-32B01	M																	
08/30/72	5112			7.4		18	36	25	10	--	--	13	52	10.0	--	.1		258		
1015	5112				590	.90	2.96	1.09	.26			.27	1.47	.16		--				0.8
						17	57	21	5											
		14S/19E-32H01	M																	
08/30/72	5112			7.6		36	83	90	13	--	--	35	104	19.0	--	.1		486		
1030	5112				1175	1.80	6.83	3.92	.33			.73	2.93	.31		--				1.9
						14	53	30	3											
		14S/19E-33C01	M																	
08/30/72	5112			7.4		39	78	85	14	--	--	25	67	6.0	--	.1		450		
0930	5112				1075	1.95	6.41	3.70	.36			.52	1.89	.10		--				1.8
						16	52	30	3											

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB		TEMP	FIELD PH	FIELD EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									B	F	MILLIGRAMS PER LITER TOS SUM	TH NCH	TURB SAR
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3		SIO2			
	S			CENTRAL VALLEY															
	S-22			SAN JOAQUIN VALLEY															
	14S/19E-35B01	M																	
08/30/72	S112			7.4		53	37	25	9.0	--	--	21	45	15.0	--	.1		140	
0745	S112				580	2.64	3.04	1.09	.23			.44	1.27	.24		--			0.6
						38	43	16	3										
	14S/19E-36C01	M																	
08/30/72	S112			7.4		82	48	30	11	--	--	19	48	21.0	--	.1		366	
0745	S112				650	4.09	3.95	1.31	.28			.40	1.35	.34		--			0.7
						42	41	14	3										
	14S/20E-14Q01	M																	
04/06/72	S215					37	24	25	--	0	226	20	31	25.7	--	--	352	196	
	S802			7.8		1.88	2.04	1.11		.00	3.70	.43	.90	.41		39.6	317	11	0.8
						37	41	22			68	8	17	8					
	14S/20E-17K01	M																	
08/29/72	S112			7.6		48	34	34	10	--	--	22	32	48.0	--	.1		239	
	S112				570	2.40	2.80	1.48	.26			.46	.90	.77		--			0.9
						35	40	21	4										
	14S/20E-18E01	M																	
08/29/72	S112			7.5		74	57	85	10	--	--	103	78	170	--	.1		368	
	S112				990	3.69	4.69	3.70	.26			2.14	2.20	2.74		--			1.8
						30	38	30	2										
	14S/20E-19L01	M																	
08/29/72	S112			7.5		61	40	35	10	--	--	15	32	20.0	--	.1		276	
1145	S112				620	3.04	3.29	1.52	.26			.31	.90	.32		--			0.9
						37	41	19	3										
	14S/20E-21F01	M																	
08/29/72	S112			7.6		31	17	20	6.0	--	--	6.0	14	9.0	--	.1		136	
0945	S112				330	1.55	1.40	.87	.15			.12	.39	.15		--			0.7
						39	35	22	4										
	14S/20E-21R01	M																	
08/29/72	S112			7.7		23	16	15	6.0	--	--	4.0	11	21.0	--	.1		76	
1015	S112				270	1.15	1.32	.65	.15			.08	.31	.34		--			0.6
						35	40	20	5										
	14S/20E-24Q01	M																	
04/06/72	S215					24	21	41	--	0	165	12	17	12.0	--	--	250	150	
	S802			7.9		1.20	1.80	1.80		.00	2.70	.26	.50	.19		30.8	241	15	1.5
						25	38	38			74	7	14	5					
	14S/20E-28D01	M																	
08/29/72	S112			7.3		322	122	260	14	--	--	35	1300	64.0	--	.0		836	
1030	S112				2500	16.07	10.03	11.31	.36			.73	36.66	1.03		--			3.1
						43	27	30	1										
	14S/20E-29A01	M																	
08/29/72	S112			7.4		96	62	100	10	--	--	57	141	49.0	--	.1		490	
1100	S112				1175	4.79	5.10	4.35	.26			1.19	3.98	.79		--			2.0
						33	35	30	2										
	14S/20E-30L01	M																	
08/29/72	S112			7.5		46	30	22	10	--	--	14	30	15.0	--	.1		213	
1115	S112				490	2.30	2.47	.96	.26			.29	.85	.24		--			0.6
						38	41	16	4										
	14S/20E-32F01	M																	
08/30/72	S112			7.6		75	49	32	10	--	--	4.0	56	29.0	--	.1		324	
0830	S112				760	3.74	4.03	1.39	.26			.08	1.58	.47		--			0.7
						40	43	15	3										
	14S/20E-36A01	M																	
03/14/72	S060					65	13	29	.0	0	211	15	20	20.4	--	.3	292	218	
	S060			7.7		3.26	1.10	1.29	.00	.00	3.46	.32	.57	.33		--	268	45	0.9
						58	19	23			74	7	12	7					
	14S/21E-05B02	M																	
01/18/72	S720					30	26	23	--	0	232	14	21	12.4	--	--	312	186	
	S802			7.1		1.51	2.20	1.00		.00	3.80	.30	.60	.20		20.8	263	0	0.7
						32	47	21			78	6	12	4					
	14S/21E-08A02	M																	
04/06/72	S132					31	24	26	--	0	217	25	24	12.4	--	--	314	181	
	S802			7.8		1.58	2.04	1.17		.00	3.56	.54	.70	.20		15.6	269	3	0.9
						33	43	24			71	11	14	4					
	14S/21E-09A01	M																	
04/06/72	S132					15	12	18	--	0	119	16	10	6.2	--	--	191	89	
	S802			8.1		.75	1.02	.81		.00	1.95	.33	.30	.10		17.6	155	0	0.9
						29	40	31			73	12	11	4					
	14S/21E-09R01	M																	
04/06/72	S132					64	35	47	--	0	384	42	35	28.4	--	--	513	307	
	S802			7.6		3.24	2.89	2.05		.00	6.29	.88	1.00	.46		20.8	463	0	1.2
						40	35	25			73	10	12	5					
	14S/21E-30M01	M																	
03/14/72	S060					49	13	13	.0	0	155	15	17	20.8	--	.3	266	177	
	S060			7.8		2.45	1.10	.60	.00	.00	2.54	.32	.48	.34		--	206	51	0.5
						59	27	14			69	9	13	9					
	14S/22E-28A01	M																	
01/25/72	S050		56.0F	7.5	550	29	27	29	3.6	0	174	46	16	39.0	.00	--	321	185	
1305	S050		13.3C	7.9	490	1.45	2.22	1.26	.09	.00	2.85	.96	.45	.63		--	275	41	0.9
						29	44	25	2		58	20	9	13					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD PH	FIELD EC	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	MILLIGRAMS PER LITER F SIO2	TDS SUM	TH NCH	TURB SAR
	S	CENTRAL VALLEY																
	5-22	SAN JOAQUIN VALLEY																
	14S/22E-28B01 M																	
01/25/72	5050	51.0F	7.0	575	48	26	34	3.6	0	215	70	12	41.0	.10	--	376	228	
1030	5050	10.5C	7.5	579	2.40	2.14	1.48	.09	.00	3.52	1.46	.34	.66		--	340	51	1.0
					39	35	24	1		59	24	6	11					
	14S/22E-28B03 M																	
01/25/72	5050	52.0F	7.5	450	38	20	21	2.4	0	131	29	14	74.0	.00	--	318	176	
1115	5050	11.1C	7.7	454	1.90	1.64	.91	.06	.00	2.15	.60	.39	1.19		--	263	70	0.7
					42	36	20	1		50	14	9	27					
	14S/22E-28G01 M																	
01/25/72	5050	50.0F	7.1	380	35	15	17	2.9	0	135	40	7.2	34.0	.00	--	292	151	
1330	5050	10.0C	7.5	377	1.75	1.23	.74	.07	.00	2.21	.83	.20	.55		--	217	39	0.6
					46	32	20	2		58	22	5	15					
	16S/17E-04M02 M																	
06/21/72	5050	68 F	7.4	750	55	10	104	--	0	307	--	44	.0	.10	.1		179	
0915	5050	20 C	7.7	764	2.74	.82	4.52		.00	5.03		1.24	.00		--		0	3.4
					34	10	56			80		20						
	16S/17E-04R02 M																	
06/21/72	5050	70 F	7.8	650	41	11	101	--	0	342	--	14	.0	.00	.2		146	
0900	5050	21 C	7.9	686	2.05	.90	4.39		.00	5.61		.39	.00		--		0	3.6
					28	12	60			94		7						
	16S/17E-14E80 M																	
06/21/72	5050	72 F	7.4	700	54	6.4	110	--	0	394	59	13	.0	.10	.1		162	
1045	5050	22 C	7.8	752	2.69	.53	4.79		.00	6.46	1.24	.37	.00		--	437	0	3.8
					34	7	60			80	15	5						
	16S/22E-06K01 M																	
01/06/72	5701	70.2F			18	1.0	21	2.0	1.2	78	5.0	14	9.0	.04	.0	129	48	
	5701	21.2C	8.3	199	.90	.08	.91	.05	.04	1.28	.10	.39	.15		19.0	129	0	1.3
					46	4	47	3	2	65	5	20	8					
	17S/21E-36B01 M																	
06/21/72	5050		7.7	300	48	6.1	15	--	0	172	--	7.6	3.8	--	--		145	
1100	5050		7.8	332	2.40	.50	.65		.00	2.82		.21	.06		--		4	0.5
					68	14	18			91		7	2					
	17S/22E-24E01 M																	
06/22/72	5050	67.0F	7.7	325	40	9.3	18	1.3	0	152	18	5.5	25.0	.00	--	262	138	
0850	5050	19.4C	7.8	339	2.00	.76	.78	.03	.00	2.49	.37	.16	.40		--	192	14	0.7
					56	21	22	1		73	11	5	12					
	17S/27E-31N01 M																	
02/17/72	5060				35	17	37	5.3	0	132	11	58	10.2	--	.2	313	160	
	5060		7.4		1.77	1.43	1.63	.14	.00	2.16	.24	1.65	.16		--	241	52	1.3
					36	29	33	3		51	6	39	4					
	18S/19E-22M02 M																	
06/23/72	5050		8.5	1000	3.5	3.0	234	.8	0	462	1.0	109	.6	1.40	--	633	21	
0935	5050		8.3	1020	.17	.25	10.18	.02	.00	7.57	.02	3.07	.01		--	580	0	22.2
					2	2	96			71		29						
	18S/20E-22J01 M																	
06/23/72	5050	66.0F	6.8	217	18	7.0	19	--	0	67	--	10	16.0	--	--		74	
1125	5050	18.9C	7.1	234	.90	.58	.63		.00	1.10		.28	.26		--		19	1.0
					39	25	36			67		17	16					
	18S/21E-27B01 M																	
06/26/72	5050	68.0F	9.0	186	3.1	2.1	45	--	4.0	97	--	5.6	.0	--	--		16	
1300	5050	20.0C	8.6	193	.15	.17	1.96		.13	1.59		.16	.00		--		0	4.8
					7	7	86											
	18S/22E-19N02 M																	
05/19/72	5702				4.5	.0	58	--	12	92	7.0	24	.4	--	.7	172	11	
	5802		8.6		.22	.00	2.53		.40	1.51	.15	.70	.01		18.0	170	0	7.6
					8		92		14	55	5	25						
	18S/22E-21C02 M																	
06/27/72	5050	71.0F	8.2	173	16	1.2	28	--	0	110	--	6.5	.4	--	--		45	
0730	5050	21.6C	7.8	201	.80	.10	1.22		.00	1.80		.18	.01		--		0	1.8
					38	5	58			90		9	1					
	18S/24E-31E01 M																	
11/23/71	5050				--	--	--	--	--	--	--	21	--	.10	--	199		
1050	5050			348								.59			--			
	18S/25E-01F02 M																	
01/12/72	5702				37	18	29	--	0	235	4.1	24	9.3	--	--	297	169	
	5802		7.6		1.88	1.49	1.27		.00	3.85	.09	.70	.15		--	239	0	1.0
					41	32	27			80	2	15	3					
	18S/25E-01L01 M																	
01/12/72	5702				22	14	39	--	0	183	19	21	.7	--	--	216	115	
	5802		7.5		1.13	1.18	1.70		.00	3.00	.41	.60	.01		--	208	0	1.6
					28	29	42			75	10	15						
	18S/25E-01P02 M																	
01/12/72	5702				25	15	35	--	0	198	16	17	5.8	--	--	234	127	
	5802		7.4		1.28	1.25	1.55		.00	3.25	.33	.50	.09		--	213	0	1.4
					31	31	38			78	8	12	2					
	18S/25E-12M01 M																	
01/12/72	5702				33	20	25	--	0	220	10	21	7.1	--	--	256	165	
	5802		7.6		1.66	1.64	1.11		.00	3.61	.21	.60	.11		--	226	0	0.9
					38	37	25			60	5	13	2					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE / TIME	SAMPLER / LAB	TEMP	FIELD LABORATORY PH	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	SIO2	TDS SUM	TH NCH	TURB SAR
	S	CENTRAL VALLEY																	
	S-22	SAN JOAQUIN VALLEY																	
	18S/25E-20E01 M																		
01/04/72	S701	62.6F			50	6.0	12	1.6	3.0	174	6.0	7.0	12.0	.02	.0		206	148	
	S701	17.0C	8.4	330	2.50	.49	.52	.04	.10	2.85	.12	.20	.19		21.0		204	2	0.4
					70	14	15	1	3	82	3	6	5						
	19S/19E-28K01 M																		
06/28/72	S050		8.0	1170	44	5.4	231	--	0	296	--	58	.1	--	--			132	
1300	S050		8.0	1200	2.20	.44	10.05		.00	4.85		1.64	.00		--			0	8.7
					17	3	79			75		25							
	19S/20E-12R01 M																		
07/18/72	S050			755	84	21	48	--	0	247	--	30	4.0	--	--			298	
0850	S050		7.8	744	4.19	1.73	2.09		.00	4.05		.85	.06		--			94	1.2
					52	22	26			82		17	1						
	19S/21E-01K01 M																		
04/27/72	S050				18	1.2	166	--	0	383	--	45	.0	.20	--			50	
1110	S050		8.0	769	.90	.10	7.22		.00	6.28		1.27	.00		--			0	10.2
					11	1	88			83		17							
	19S/21E-01K02 M																		
04/27/72	S050				8.7	.6	194	--	0	408	--	55	.0	.20	--			24	
1125	S050		8.2	839	.43	.05	8.44		.00	6.69		1.55	.00		--			0	17.2
					5	1	95			81		19							
	19S/21E-01P02 M																		
04/27/72	S050				16	.2	206	--	0	431	--	62	.0	.30	--			41	
1100	S050		8.0	904	.80	.02	8.96		.00	7.06		1.75	.00		--			0	14.0
					8		92			80		20							
	19S/21E-01P03 M																		
04/27/72	S050				30	3.2	223	--	0	517	--	69	.0	.40	--			88	
1140	S050		7.9	1050	1.50	.26	9.70		.00	8.47		1.95	.00		--			0	10.3
					13	2	85			81		19							
	19S/23E-01H01 M																		
12/01/71	S214				--	--	37	--	--	--	--	28	10.2	.05	--		64		
	S817		9.0				1.61					.80	.16		--				
	19S/23E-02N01 M																		
11/23/71	S050	66.0F			--	--	--	--	--	--	--	19	--	.10	--		237		
0930	S050	18.9C		400								.54			--				
	19S/23E-04H02 M																		
06/27/72	S050	67.0F	7.7	310	39	2.1	28	--	0	154	--	15	9.1	--	--			106	
1240	S050	19.4C	7.9	323	1.95	.17	1.22		.00	2.52		.42	.15		--			0	1.2
					58	5	37			82		14	5						
	19S/24E-06N01 M																		
11/23/71	S050				--	--	--	--	--	--	--	6.8	--	.00	--		92		
0905	S050			138								.19			--				
	19S/26E-06M04 M																		
03/09/72	S060				18	6.5	9.4	1.8	0	86	3.9	4.0	1.5	--	.2		132	74	
	S060		7.9		.93	.53	.41	.05	.00	1.41	.08	.11	.02		--		88	3	0.5
					48	28	21	3		87	5	7	1						
	20S/20E-28E02 M																		
07/13/72	S050			723	11	5.2	142	--	0	215	--	106	20.0	--	--			49	
0940	S050		7.8	696	.55	.43	6.18		.00	3.52		2.99	.32		--			0	8.8
					8	6	86			52		44	5						
	20S/21E-36P01 M																		
07/13/72	S050	76.0F			7.6	4.1	59	--	0	144	--	21	1.1	--	--			36	
1040	S050	24.4C	8.0	306	.38	.34	2.57		.00	2.36		.59	.02		--			0	4.3
					12	10	78			79		20	1						
	20S/22E-36H01 M																		
07/13/72	S050	68.0F		320	28	1.9	48	--	0	174	--	11	9.0	--	--			78	
1420	S050	20.0C	7.9	346	1.40	.16	2.09		.00	2.85		.31	.15		--			0	2.4
					38	4	57			86		9	5						
	21S/18E-12Q01 M																		
07/11/72	S050	76.0F		2400	28	7.0	491	5.0	0	458	74	505	20.0	2.20	--		1480	100	
1515	S050	24.4C	8.0	2490	1.40	.58	21.36	.13	.00	7.51	1.54	14.24	.32		--		1357	0	21.5
					6	2	91	1		32	7	60	1						
	21S/22E-34A01 M																		
07/10/72	S050	78.0F		367	4.9	4.4	75	--	0	130	--	43	.2	--	--			30	
0840	S050	25.5C	7.5	366	.24	.36	3.26		.00	2.13		1.21	.00		--			0	5.9
					6	9	84			64		36							
	21S/27E-27C02 M																		
11/23/71	S050	62.0F			--	--	--	--	--	--	--	--	26.0	--	--				
1340	S050	16.7C		574									.42		--				
	21S/27E-27G03 M																		
11/23/71	S050	60.0F			--	--	--	--	--	--	--	--	16.0	--	--				
1310	S050	15.5C		387									.26		--				
	21S/27E-27L02 M																		
11/23/71	S050	57.0F			--	--	--	--	--	--	--	--	18.0	--	--				
1245	S050	13.9C		411									.29		--				

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									B	F	TDS	TH	TURB
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3		SIO2	SUM	NCH	SAR
	S			CENTRAL VALLEY														
	S-22			SAN JOAQUIN VALLEY														
	21S/27E-27M02	M																
11/23/71	5050	52.0F			--	--	--	--	--	--	--	--	24.0	--	--			
1100	5050	11.1C		457									.39		--			
	21S/27E-28A02	M																
11/23/71	5050	55.0F			--	--	--	--	--	--	--	--	16.0	--	--			
1035	5050	12.8C		633									.26		--			
	21S/27E-28H02	M																
11/23/71	5050	62.0F			--	--	--	--	--	--	--	--	20.0	--	--			
1040	5050	16.7C		486									.32		--			
	21S/28E-32J01	M																
03/17/72	5060				--	--	--	--	--	--	--	--	32.6	--	--			
	5060												.53		--			
	21S/28E-32K02	M																
03/17/72	5060				--	--	--	--	--	--	--	--	22.8	--	--			
	5060												.37		--			
	22S/18E-03H01	M																
07/11/72	5050	78.0F		901	23	3.5	165	--	0	60	--	68	2.0	--	--		72	
1345	5050	25.5C	7.8	902	1.15	.29	7.18		.00	.98		1.92	.03		--		23	8.5
					13	3	83			33		66	1					
	24S/22E-34N01	M																
07/10/72	5050	76.0F		650	16	3.6	114	1.5	0	184	5.8	95	11.0	.30	--	384	55	
1110	5050	24.4C	7.9	642	.80	.30	4.96	.04	.00	3.02	.12	2.68	.18		--	338	0	6.7
					13	5	81	1		50	2	45	3					
	24S/26E-36R02	M																
10/08/71	5060				20	1.7	68	2.3	0	71	70	41	23.1	--	.2	320	58	
	5060		7.5		1.01	.14	3.00	.06	.00	1.16	1.48	1.17	.37		--	264	0	3.9
					24	3	71	1		28	35	28	9					
	27S/26E-08Q01	M																
04/27/72	5121				49	4.1	30	--	0	118	--	58	5.2	.00	--		139	
1030	5050		7.6	430	2.45	.34	1.31		.00	1.93		1.64	.08		--		43	1.1
					60	8	32			53		45	2					
	27S/26E-16Q01	M																
05/12/72	5121	68 F			77	13	36	--	0	123	--	122	23.0	.00	--		246	
0800	5050	20 C	7.8	683	3.84	1.07	1.57		.00	2.02		3.44	.37		--		145	1.0
					59	17	24			35		59	6					
	27S/26E-22Q01	M																
11/09/71	5703				16	3.4	36	1.3	4.2	58	11	48	--	.00	.0	215	56	
	5803		8.2	244	.84	.26	1.59	.03	.14	.95	.24	1.38			1.1	152	2	2.1
					31	10	58	1										
04/28/72	5703				12	5.6	55	1.3	7.8	49	41	56	--	.00	.2	222	55	
	5803		8.7	278	.64	.46	2.43	.03	.26	.80	.87	1.60			--	206	2	3.3
					18	13	68	1										
	27S/26E-27A01	M																
11/30/71	5703				86	47	436	7.4	0	229	18	819	--	2.25	1.0	1685	410	
	5803		7.9	2381	4.29	3.91	18.97	.19	.00	3.75	.38	23.10			2.2	1531	223	9.4
					16	14	69	1		14	1	85						
05/08/72	5703				82	17	95	2.5	0	138	73	210	--	.30	.4	644	278	
	5803		7.7	800	4.11	1.45	4.15	.06	.00	2.26	1.52	5.92			--	549	165	2.5
					42	15	42	1		23	16	61						
	27S/26E-27R01	M																
11/09/71	5703				68	14	38	3.1	0	76	101	103	--	.00	.0	412	230	
	5803		7.8	571	3.43	1.17	1.68	.08	.00	1.25	2.12	2.92			1.1	368	168	1.1
					54	18	26	1		20	34	46						
04/28/72	5703				360	74	21	7.7	0	185	279	574	--	.00	.0	2018	603	
	5803		7.7	3030	17.96	6.14	.95	.20	.00	3.03	5.83	16.20			--	1410	1054	0.3
					71	24	4	1		12	23	65						
	27S/26E-32A01	M																
05/02/72	5121	74 F			43	5.1	32	--	0	90	--	33	28.0	.00	--		128	
0920	5050	23 C	7.7	404	2.15	.42	1.39		.00	1.48		.93	.45		--		55	1.2
					54	11	35			52		33	16					
	27S/26E-34C01	M																
03/29/72	5121	77 F			62	8.4	51	--	0	76	--	81	14.0	.00	--		189	
1515	5050	25 C	7.9	628	3.09	.69	2.22		.00	1.25		2.28	.23		--		127	1.6
					52	12	37			33		61	6					
	28S/26E-03A01	M																
04/06/72	5121				48	4.1	53	--	0	72	--	89	15.0	.10	--		137	
1405	5050		7.3	545	2.40	.34	2.31		.00	1.18		2.51	.24		--		78	2.0
					48	7	46			30		64	6					
	28S/26E-04C01	M																
04/06/72	5121				332	53	83	--	0	149	--	258	213	.00	--		1050	
1410	5050		7.8	2220	16.57	4.36	3.61		.00	2.44		7.28	3.44		--		925	1.1
					68	18	15			19		55	26					
	28S/27E-07C02	M																
03/29/72	5121	84.5F			1.5	2.3	53	--	13	70	--	28	.0	.00	--		13	
1440	5050	29.1C	9.1	255	.07	.19	2.31		.43	1.15		.79	.00		--		0	6.3
					3	7	90											

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE / TIME	SAMPLER / LAB	TEMP	FIELD PH	FIELD EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	SIO2	TDS	TH SUM	TH NCH	TURB	SAR
					MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER					MILLIEQUIVALENTS PER LITER			PERCENT REACTANCE VALUE	MILLIGRAMS PER LITER						
	5		CENTRAL VALLEY																		
	5-22		SAN JOAQUIN VALLEY																		
	28S/27E-29Q01 M																				
03/29/72	5121	82 F			83	4.6	260	--	0	30	--	280	23.0	.00	--		226			
1415	5050	28 C	7.5	1650	4.14	.38	11.31		.00	.49		7.90	.37		--		202		7.5	
					26	2	71			6		90	4								
	28S/27E-30A02 M																				
04/28/72	5121	80 F			86	7.4	231	--	0	75	--	220	24.0	.20	--		245			
1400	5050	27 C	7.6	1570	4.29	.61	10.05		.00	1.23		6.20	.39		--		184		6.4	
					29	4	67			16		79	5								
	29S/27E-23H01 M																				
01/05/72	5701	66.4F			26	2.0	20	2.4	.9	111	13	14	.0	.12	.1	160	76				
	5701	19.1C	8.1	245	1.30	.16	.87	.06	.03	1.82	.27	.39	.00		26.0	159	0		1.0		
					54	7	36	3	1	73	11	16									
	29S/28E-16E01 M																				
01/05/72	5701	63.9F			32	1.0	22	2.2	.9	125	15	11	.0	.15	.2	170	86				
	5701	17.7C	8.1	258	1.60	.08	.96	.06	.03	2.05	.31	.31	.00		24.0	170	0		1.0		
					59	3	36	2	1	76	11	11									
	29S/28E-20N02 M																				
01/05/72	5701	69.8F			15	.0	32	2.5	1.8	99	11	9.0	.0	.11	.1	136	38				
	5701	21.0C	8.4	211	.75	.00	1.39	.06	.06	1.62	.23	.25	.00		15.0	135	0		2.3		
					34		63	3	3	75	11	12									
	30S/27E-04F01 M																				
05/09/72	5702 —				27	7.3	17	1.8	0	101	19	21	3.1	--	.0	147	98				
	5803		7.9	235	1.36	.60	.76	.05	.00	1.66	.41	.60	.05		--	148	15		0.8		
					49	22	27	2		61	15	22	2								
	30S/27E-04F02 M																				
08/01/72	5702				20	3.0	29	2.6	0	105	.0	37	.5	--	.2	135	63				
	5806		7.9	260	1.00	.25	1.26	.07	.00	1.72	.00	1.04	.01		--	144	0		1.6		
					39	10	49	3		62		38									
	30S/27E-04R01 M																				
05/09/72	5702				39	6.1	10	1.9	0	113	19	22	3.5	--	.1	157	124				
	5803		7.7	250	1.98	.50	.45	.05	.00	1.85	.40	.62	.06		--	158	32		0.4		
					66	17	15	2		63	14	21	2								
	30S/27E-15H01 M																				
05/09/72	5702				51	10	14	2.5	0	153	28	24	13.0	--	.1	218	170				
	5803		7.4	370	2.55	.85	.61	.06	.00	2.51	.59	.70	.21		--	219	45		0.5		
					63	21	15	1		63	15	17	5								
	30S/27E-15R01 M																				
05/09/72	5702				48	6.1	9.0	2.1	0	113	28	29	.0	--	.1	178	145				
	5803		8.1	323	2.40	.50	.39	.05	.00	1.85	.60	.84	.00		--	179	53		0.3		
					72	15	12	1		56	18	26									
	31S/28E-12D02 M																				
11/10/71	5121				122	30	103	5.3	0	186	248	112	26.0	.40	--	810	369				
	5050		8.0	1240	6.09	2.47	4.48	.14	.00	3.05	5.16	3.16	.42		--	738	276		2.2		
					46	19	34	1		26	44	27	4								
	31S/28E-26A01 M																				
11/10/71	5121				7.5	.4	49	.8	0	92	33	12	.7	.10	--	175	21				
	5050		8.0	269	.37	.03	2.13	.02	.00	1.51	.69	.34	.01		--	149	0		4.7		
					15	1	84	1		59	27	13									
	31S/29E-06C01 M																				
11/10/71	5121				68	16	51	--	0	219	--	42	44.0	.30	--		234				
	5050		8.0	688	3.39	1.32	2.22		.00	3.59		1.18	.71		--		56		1.4		
					49	19	32			66		22	13								
	31S/29E-07A02 M																				
11/10/71	5121				62	17	57	--	0	219	--	41	18.0	.30	--		223				
	5050		8.0	667	3.09	1.40	2.48		.00	3.59		1.16	.29		--		45		1.7		
					44	20	36			71		23	6								
	31S/29E-09C01 M																				
11/10/71	5121				90	30	70	--	0	262	--	70	39.0	.40	--		349				
	5050		7.9	930	4.49	2.47	3.05		.00	4.29		1.97	.63		--		134		1.6		
					45	25	30			62		29	9								
	31S/29E-16C01 M																				
11/10/71	5121				68	16	51	--	0	219	--	42	44.0	.30	--		234				
	5050		8.0	688	3.39	1.32	2.22		.00	3.59		1.18	.71		--		56		1.4		
					49	19	32			66		22	13								
	32S/28E-12F01 M																				
11/10/71	5121				22	6.1	45	--	0	140	--	16	2.4	.20	--		80				
	5050		7.9	361	1.10	.50	1.96		.00	2.29		.45	.04		--		0		2.2		
					31	14	55			82		16	1								
	32S/29E-01R01 M																				
11/10/71	5121				21	6.0	80	--	0	131	--	53	12.0	.40	--		77				
	5050		8.1	508	1.05	.49	3.48		.00	2.15		1.49	.19		--		0		4.0		
					21	10	69			56		39	5								
	32S/29E-12F01 M																				
11/10/71	5121				30	3.9	118	--	0	75	--	152	8.9	.50	--		91				
	5050		7.6	746	1.50	.32	5.13		.00	1.23		4.29	.14		--		30		5.4		
					22	5	74			22		76	2								

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB		TEMP	FIELD LABORATORY PH	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TM NCH	TURB SAR
	S			CENTRAL VALLEY															
	S-28			TEHACHAPI VALLEY															
	32S/33E-19R07	M																	
01/13/72	5702					68	10	35	1.5	0	85	138	46	14.3	--	.3	354	212	0
	5806			8.3	490	3.39	.82	1.52	.04	.00	1.39	2.87	1.30	.23		--	355	141	1.0
						59	14	26	1		24	50	22	4					
	32S/33E-21L03	M																	
01/10/72	5702					50	12	8.3	.8	3.6	148	15	27	17.0	--	.1	209	178	
	5803			8.2	333	2.51	1.04	.36	.02	.12	2.43	.33	.78	.27		--	209	50	0.3
						64	26	9	1	3	62	8	20	7					

TABLE E-2

MINOR ELEMENT ANALYSES OF GROUND WATER

This table presents data resulting from the collection and analyses of ground water by various agencies and laboratories. The code numbers listed below will identify the laboratory that conducted the analysis:

5050	California Department of Water Resources
5060	California Department of Public Health
5112	Fresno County Health Department
5701	California Water Service Company
5800	Terminal Testing Laboratory
5802	Twining Laboratory
5803	Hornkohl Laboratory
5806	B. C. Laboratory
5819	Brown and Caldwell Laboratory

Chemical Symbols

AS	Arsenic	HG	Mercury
CD	Cadmium	MN	Manganese
CR	Chromium	PB	Lead
CU	Copper	SE	Selenium
FED	Iron, Dissolved	ZN	Zinc
FET	Iron, Total		

TABLE E-2

MINOR ELEMENT ANALYSES OF GROUND WATER
(in milligrams per liter)

Well No.	Date	LAB	AS	CD	CU	CR	FED	FET	HG	MN	PB	SE	ZN
02S/10E-14F02M	11-02-71	5819						0.02		0.01*			
03S/09E-33Q01M	4-05-72	5819						0.02		0.01*			
06S/11E-09D01M	3-14-72	5800					0.04			Nil			
07S/15E-27Q01M	2-22-72	5060	0.01*					0.09		0.05*			
07S/21E-14C02M	10-18-71	5802					0.008			Nil			
13S/12E-09H02M	9-26-72	5050	0.00										
13S/19E-36E02M	4-06-72	5802					0.002			Nil			
13S/20E-09F01M	4-06-72	5802					0.002			Nil			
13S/20E-09K01M	4-06-72	5802					0.002			Nil			
13S/20E-11C01M	4-06-72	5802					0.016			Nil			
13S/20E-25E02M	4-06-72	5802					0.002			Nil			
13S/20E-25G02M	4-06-72	5802					0.012			Nil			
14S/19E-07M01M	8-29-72	5112					0.10			0.05			
14S/19E-07M02M	8-29-72	5112					0.10			0.05			
14S/19E-11H02M	8-30-72	5112					0.10			0.05			
14S/19E-12Q01M	8-30-72	5112					0.10			0.05			
14S/19E-13R01M	8-29-72	5112					0.10			0.05			
14S/19E-14M01M	8-29-72	5112					0.10			0.05			
14S/19E-14P01M	8-29-72	5112					0.10			0.05			
14S/19E-15R01M	8-29-72	5112					0.10			0.05			
14S/19E-17C01M	8-29-72	5112					0.10			0.05			
14S/19E-18C01M	8-29-72	5112					0.10			0.05			
14S/19E-22R01M	8-30-72	5112					0.10			0.05			
14S/19E-24M01M	8-29-72	5112					0.10			0.05			
14S/19E-24N01M	8-29-72	5112					0.10			0.05			
14S/19E-25C01M	8-29-72	5112					0.10			0.05			
14S/19E-25D01M	8-29-72	5112					0.10			0.05			
14S/19E-26P01M	8-30-72	5112					0.10			0.05			
14S/19E-27R01M	8-30-72	5112					0.10			0.05			
14S/19E-28P01M	8-30-72	5112					0.10			0.05			
14S/19E-29R01M	8-29-72	5112					0.10			0.05			
14S/19E-30A01M	8-30-72	5112					0.10			0.05			
14S/19E-31A01M	8-30-72	5112					0.10			0.05			
14S/19E-32B01M	8-30-72	5112					0.10			0.05			
14S/19E-32H01M	8-30-72	5112					0.10			0.05			
14S/19E-33C01M	8-30-72	5112					0.10			0.05			
14S/19E-35B01M	8-30-72	5112					0.10			0.05			
14S/19E-36C01M	8-30-72	5112					0.10			0.05			
14S/20E-14Q01M	4-06-72	5802					0.004			Nil			
14S/20E-17K01M	8-29-72	5112					0.10			0.05			
14S/20E-18E01M	8-29-72	5112					0.10			0.05			
14S/20E-19L01M	8-29-72	5112					0.10			0.05			
14S/20E-21F01M	8-29-72	5112					0.10			0.05			
14S/20E-21R01M	8-29-72	5112					0.10			0.05			
14S/20E-24D01M	4-06-72	5802					0.002			Nil			
14S/20E-28D01M	8-29-72	5112					0.10			0.05			
14S/20E-29A01M	8-29-72	5112					0.10			0.05			
14S/20E-30L01M	8-29-72	5112					0.10			0.05			
14S/20E-32F01M	8-30-72	5112					0.10			0.05			
14S/20E-36A01M	3-14-72	5060						0.1		Nil			
14S/21E-05B02M	1-18-72	5802						0.28		Nil			
14S/21E-08A02M	4-06-72	5802					0.016			Nil			
14S/21E-09A01M	4-06-72	5802					0.002			Nil			
14S/21E-09R01M	4-06-72	5802					0.016			Nil			
14S/21E-30M01M	3-14-72	5060						0.1		Nil			
15S/22E-31A01M	2-08-72	5701							0.000				
16S/22E-05C01M	2-08-72	5701							0.000				
16S/22E-05E01M	2-08-72	5701							0.000				
16S/22E-06K01M	1-07-72	5701	0.000	0.0002	0.0030	0.002		0.01		0.002	0.000	0.000	0.0003
16S/22E-06K01M	2-08-72	5701							0.000				
16S/22E-06Q01M	2-08-72	5701							0.000				
16S/22E-07A01M	2-08-72	5701							0.000				
17S/27E-31N01M	2-17-72	5060	0.01*					0.62		0.05*		0.01*	
18S/22E-19N02M	5-19-72	5802					0.001			0.015			
18S/25E-01F02M	1-12-72	5802						0.32		Nil			
18S/25E-01L01M	1-12-72	5802						0.64		0.075			
18S/25E-01P02M	1-12-72	5802						0.20		Nil			
18S/25E-12M01M	1-12-72	5802						0.10		Nil			
18S/25E-20E01M	1-04-72	5701	0.000	0.001	0.0028	0.002	0.01			0.000	0.001	0.000	0.0096
19S/25E-07A01M	1-04-72	5701	0.000	0.0004	0.0041	0.001	0.00			0.001	0.000	0.000	0.0075
19S/26E-06M04M	3-09-72	5060	0.01					0.01*		0.05*		0.01*	
24S/24E-09Q02M	11-16-71	5060	0.14										
24S/24E-09Q02M	1-06-72	5060	0.09										
24S/26E-36R02M	10-08-71	5060	0.01					0.11		0.05*			
27S/26E-08Q01M	4-27-72	5050	0.00										

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSES OF GROUND WATER
(in milligrams per liter)

Well No.	Date	LAB	AS	CD	CU	CR	FED	FET	HG	MN	PB	SE	ZN
27S/26E-16D01M	5-12-72	5050	0.00										
27S/26E-32A01M	5-02-72	5050	0.00										
27S/26E-34C01M	3-29-72	5050	0.00										
28S/26E-04C01M	4-06-72	5050	0.00										
28S/27E-07C02M	3-29-72	5050	0.00										
28S/27E-29D01M	3-29-72	5050	0.00										
28S/27E-30A02M	4-28-72	5050	0.00										
29S/27E-23H01M	1-05-72	5701	0.000	0.0006	0.0019	0.001	0.00			0.001	0.000	0.000	0.0013
29S/28E-16E01M	1-05-72	5701	0.000	0.0016	0.0006	0.001		0.32		0.226	0.000	0.000	0.06
29S/28E-20N02M	1-05-72	5701	0.005	0.0003	0.0018	0.001		0.02		0.003	0.000	0.000	0.0016
30S/27E-04F01M	5-09-72	5803	0.01*				0.1			0.00			
30S/27E-04F02M	8-01-72	5806	0.01*				0.05*			0.01*			
30S/27E-04R01M	5-09-72	5803	0.01*					0.1		0.00			
30S/27E-15H01M	5-09-72	5803	0.01*					0.1		0.01			
30S/27E-15R01M	5-09-72	5803	0.01*					0.1		0.00			
31S/28E-12D02M	11-10-71	5050	0.00										
31S/28E-26A01M	11-10-71	5050	0.01										
31S/29E-07A02M	11-10-71	5050	0.00										
31S/29E-09C01M	11-10-71	5050	0.00										
31S/29E-16C01M	11-10-71	5050	0.00										
32S/28E-12F01M	11-10-71	5050	0.00										
32S/29E-01R01M	11-10-71	5050	0.01										
32S/29E-12F01M	11-10-71	5050	0.01										
32S/33E-19R07M	1-14-72	5806	0.01*				0.05*			0.01*			
32S/33E-21L03M	1-10-72	5803	0.01					0.1		0.00			

*Less than the amount indicated.

TABLE E-3

MISCELLANEOUS CONSTITUENTS OF GROUND WATER

Table E-3 presents analyses which do not appear on Tables E-1 and E-2. Listed below are definitions of abbreviations used in this table.

LAB	Laboratory
5050	California Department of Water Resources
5060	California Department of Public Health
5112	Fresno County Health Department
5701	California Water Service Company
5802	Twining Laboratory
5803	Hornkohl Laboratory
5806	B. C. Laboratory

Chemical Symbols

ABS	Methylene Blue Active Substances (as Alkyl Benzene Sulfonate)
CHLO	Pesticides, Chlorinated Hydrocarbons
CO_2	Carbon Dioxide
COLOR	True Color
I	Iodide
NH_3	Ammonia
NH_4	Ammonium
NO_2	Nitrite
ODOR	Threshold Odor Number
PHENOL	Phenolic Compounds
PO_4	Phosphates
S	Sulfides

TABLE E-3

MISCELLANEOUS CONSTITUENTS OF GROUND WATER
(in milligrams per liter)

Well No.	Date	LAB	ABS	CHLO[1]	CO_2	COLOR[2]	I[1]	NH_3	NH_4	NO_2	ODOR[3]	PHENOL	PO_4	S
2S/10E-14F02M	11-02-71	5819			2									
3S/09E-33Q01M	4-05-72	5819			4.2									
4S/19E-07M01M	8-29-72	5112	0.5											
4S/19E-07M02M	8-29-72	5112	0.5											
4S/19E-11H02M	8-30-72	5112	0.5											
4S/19E-12Q01M	8-30-72	5112	0.5											
4S/19E-13R01M	8-29-72	5112	0.5											
4S/19E-14M01M	8-29-72	5112	0.5											
4S/19E-14P01M	8-29-72	5112	0.5											
4S/19E-15R01M	8-29-72	5112	0.5											
4S/19E-17C01M	8-29-72	5112	0.5											
4S/19E-18C01M	8-29-72	5112	0.5											
4S/19E-22R02M	8-30-72	5112	0.5											
4S/19E-24M01M	8-29-72	5112	0.5											
4S/19E-24N01M	8-29-72	5112	0.5											
4S/19E-25C01M	8-29-72	5112	0.5											
4S/19E-25D01M	8-29-72	5112	0.5											
4S/19E-26P01M	8-30-72	5112	0.5											
4S/19E-27R01M	8-30-72	5112	0.5											
4S/19E-28P01M	8-30-72	5112	0.5											
4S/19E-29R01M	8-29-72	5112	0.5											
4S/19E-30A01M	8-30-72	5112	0.5											
4S/19E-31A01M	8-30-72	5112	0.5											
4S/19E-32B01M	8-30-72	5112	0.5											
4S/19E-32H01M	8-30-72	5112	0.5											
4S/19E-33C01M	8-30-72	5112	0.5											
4S/19E-35B01M	8-30-72	5112	0.5											
4S/19E-36C01M	8-30-72	5112	0.5											
4S/20E-17K01M	8-29-72	5112	0.5											
4S/20E-18E01M	8-29-72	5112	0.5											
4S/20E-19C01M	8-29-72	5112	0.5											
4S/20E-21F01M	8-29-72	5112	0.5											
4S/20E-21R01M	8-29-72	5112	0.5											
4S/20E-28D01M	8-29-72	5112	0.5											
4S/20E-29A01M	8-29-72	5112	0.5											
4S/20E-30L01M	8-29-72	5112	0.5											
4S/20E-32F01M	8-30-72	5112	0.5											
6S/22E-06K01M	1-14-72	5701	0.00		0		9						0.04	
8S/22E-19N02M	5-19-72	5802		None detected		2								
8S/25E-20E01M	1-07-72	5701	0.02		1		15						0.04	
9S/21E-01K01M	4-27-72	5050										0.025		
9S/21E-01K02M	4-27-72	5050										0.009		
9S/21E-01P02M	4-27-72	5050										0.010		
9S/21E-01P03M	4-27-72	5050										0.55		
9S/25E-07A01M	1-06-72	5701	0.03		2		17						0.01	
9S/26E-06M04M	3-09-72	5060	0.01*											
9S/27E-23H01M	1-05-72	5701	.03		2		24						.03	
9S/28E-16E01M	1-05-72	5701	.00		2		28						.94	
9S/28E-20N02M	1-05-72	5701	.03		1		17						.03	
0S/27E-04F01M	5-09-72	5803				White		Trace		0.0	None			0.0
0S/27E-04F02M	8-01-72	5806				None			0.27	0.009	None			0.1*
0S/27E-04R01M	5-09-72	5803				White		Trace		0.0	None			0.0
0S/27E-15H01M	5-09-72	5803				White		Trace		0.0	None			0.0
0S/27E-15R01M	5-09-72	5803				White		Trace		0.0	None			0.0
2S/33E-19R07M	1-21-72	5806				0			.025*	0.005	None			0.1*
2S/33E-21L03M	1-10-72	5803				White		Trace		0.0	None			0.0

/ Reported in parts per billiona.
/ Reported as units of color.
/ When found, reported as "threshold odor number".

*Less than amount indicated.

APPENDIX F

WASTE WATER DATA

Appendix F, "Waste Water Data", which appeared in certain volumes of Bulletin No. 130 series, has been discontinued. For information regarding waste water, the reader is referred to the recently reactivated Bulletin No. 68 series: "Inventory of Waste Water Production and Waste Water Reclamation Practices in California".

Please note the data presented in Bulletin No. 68 are on a calendar year basis rather than a water year basis as is the case in Bulletin No. 130.

EGEND

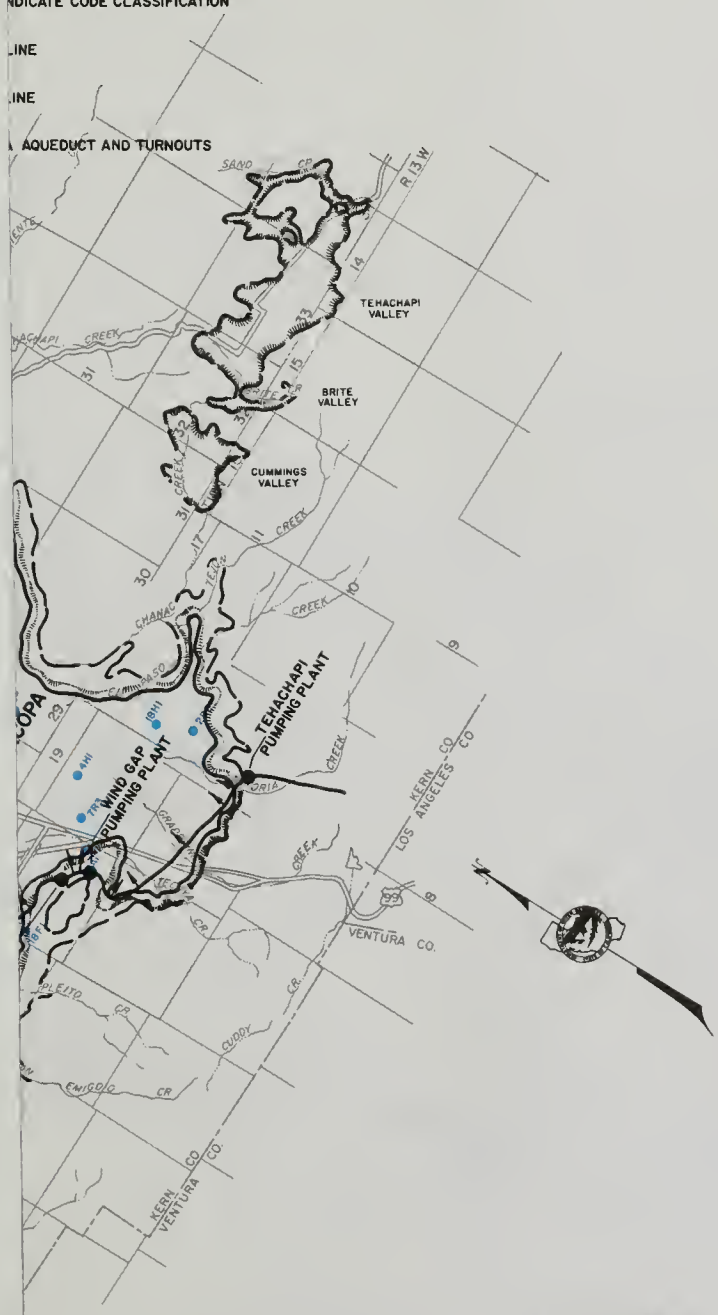
R AREA BOUNDARIES

NDICATE CODE CLASSIFICATION

LINE

LINE

AQUEDUCT AND TURNOUTS



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THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

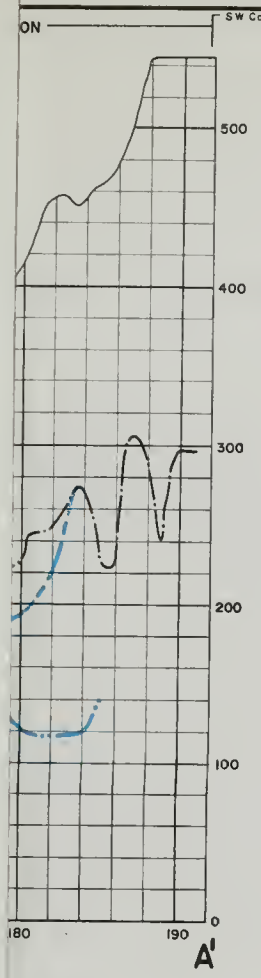
HYDROLOGIC DATA 1972

GROUND WATER AREAS AND SELECTED OBSERVATION WELLS

SCALE OF MILES
6 0 6 12

PLATE 1


LEGEND
DISTRICT OR AREA BOUNDARIES
5-22.00 NUMBERS INDICATE CODE CLASSIFICATION
FOOTHILL LINE
BEDROCK LINE
CALIFORNIA AQUEDUCT AND TURNOUTS
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1972
GROUND WATER AREAS AND SELECTED OBSERVATION WELLS
SCALE OF MILES
STOCKTON
MODESTO
FRESNO
TRACY AREA 5-22.04
DELTA MENDOTA AREA 5-22.11
MENDOTA 5-22.14
HURON AREA 5-22.47
TULARE LAKE 5-22.43
LOST HILLS AREA 5-22.45
MCKITTRICK AREA 5-22.44
KERN RIVER DELTA AREA 5-22.40
EDISON 5-22.41
MARICOPA 5-22.42
SEMITROPIC W.S.D. 5-22.39
ALPAUGH ALLERGWORTH AREA 5-22.34
DELANO EARLIMART I.D. 5-22.35
SOUTHERN SAN JOAQUIN M.U.D. 5-22.36
NORTH KERN W.S.D. 5-22.37
SHAFTER-WASCO I.D. 5-22.38
PIXLEY I.D. 5-22.33
LOWER TULE RIVER I.D. 5-22.30
TULARE I.D. 5-22.25
KAWEAH DELTA W.C.D. 5-22.24
LINDMORE I.D. 5-22.26
ALTA I.D. 5-22.19
CONSOLIDATED I.D. 5-22.18
LOWER KINGS RIVER AREA 5-22.20
CORCORAN I.D. 5-22.46
FRESNO SLOUGH AREA 5-22.17
FRESNO I.D. 5-22.16
MADERA I.D. 5-22.13
CHOWCHILLA W.D. 5-22.12
WEST CHOWCHILLA-MADERA AREA 5-22.10
MERCED BOTTOMS 5-22.34
MERCED I.D. 5-22.09
TURLOCK I.D. 5-22.08
MODESTO I.D. 5-22.07
OAKDALE I.D. 5-22.06
SAN LUIS CANAL CO. 5-22.49
PORO 5-22.45
5-22.48
5-22.18
5-22.39
5-22.24
5-22.23



HISTORIC DATA PRESENTED
IN FIGURE C-1 FOR FOLLOWING AREAS

1 MADERA
2 FRESNO
3 CONSOLIDATED
4 CENTERVILLE BOTTOMS
5 ALTA
6 IVANHOE
7 OUTSIDE IVANHOE
8 MILL CREEK
9 TULARE
10 ELK BAYOU
11 LINDSAY-EXETER
12 TULE RIVER
13 LOWER DEER CREEK
14 MIDDLE DEER CREEK
15 DELANO-EARLIMART
16 Mc FARLAND-SHAFTER
17 ROSEDALE
18 ARVIN-EDISON



LEGEND



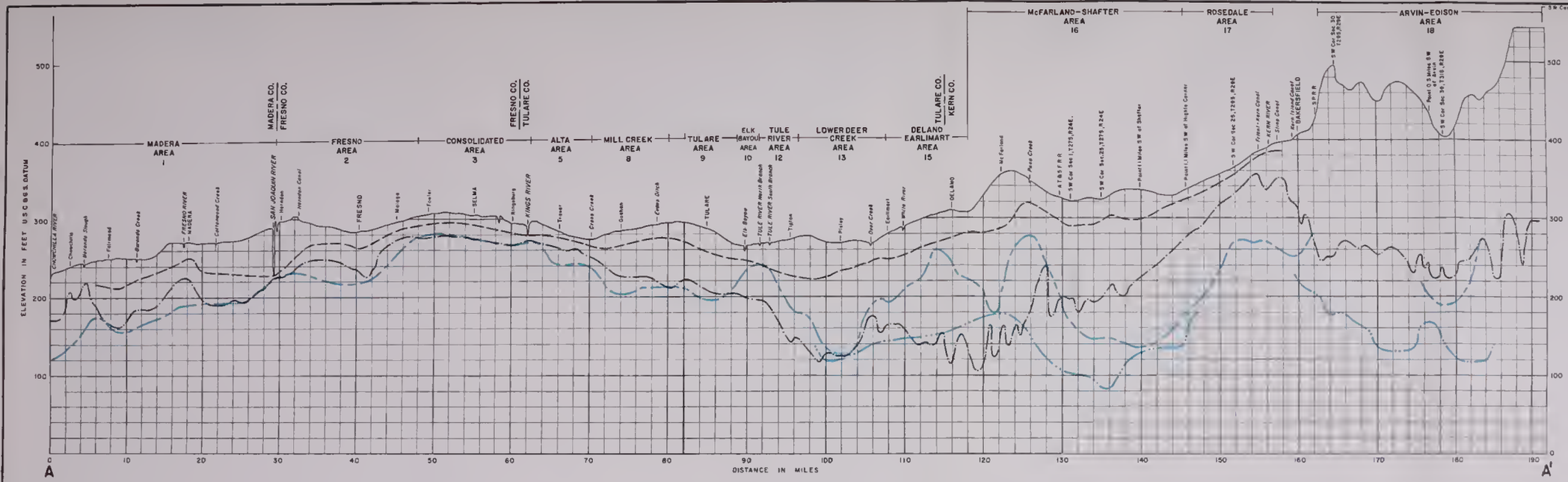
GROUND WATER AREA BOUNDARIES
GROUND WATER LEVEL FALL 1921
GROUND WATER LEVEL FALL 1951
GROUND WATER LEVEL SPRING 1972, UNCONFINED AQUIFER
GROUND WATER LEVEL SPRING 1972, PRESSURE SURFACE
GROUND WATER LEVEL PROFILE SECTION

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SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1972

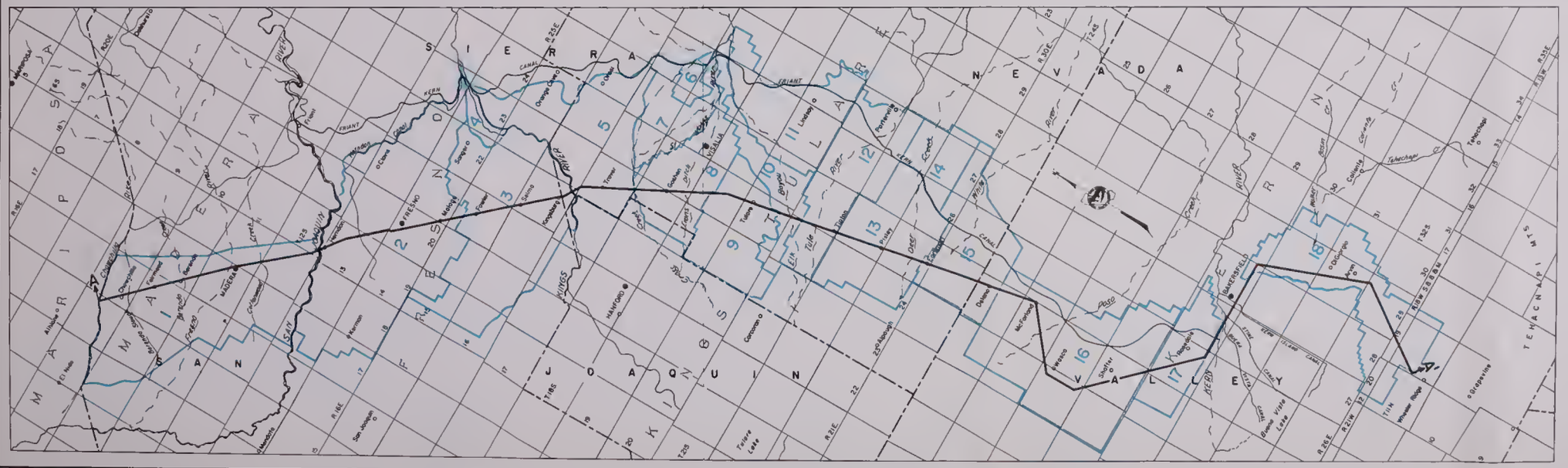
MAP OF SELECTED GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY AND PROFILES ALONG SECTION A-A' SHOWING GROUND WATER LEVELS IN 1921, 1951 & 1972

SCALE OF MILES
6 0 6 12



HISTORIC DATA PRESENTED
IN FIGURE C-1 FOR FOLLOWING AREAS

1 MADERA
2 FRESNO
3 CONSOLIDATED
4 CENTERVILLE BOTTOMS
5 ALTA
6 IVANHOE
7 OUTSIDE IVANHOE
8 MILL CREEK
9 TULARE
10 ELK BAYOU
11 LINDSAY-EXETER
12 TULE RIVER
13 LOWER DEER CREEK
14 MIDDLE DEER CREEK
15 DELANO-EARLIMART
16 Mc FARLAND-SHAFTER
17 ROSEDALE
18 ARVIN-EDISON



LEGEND

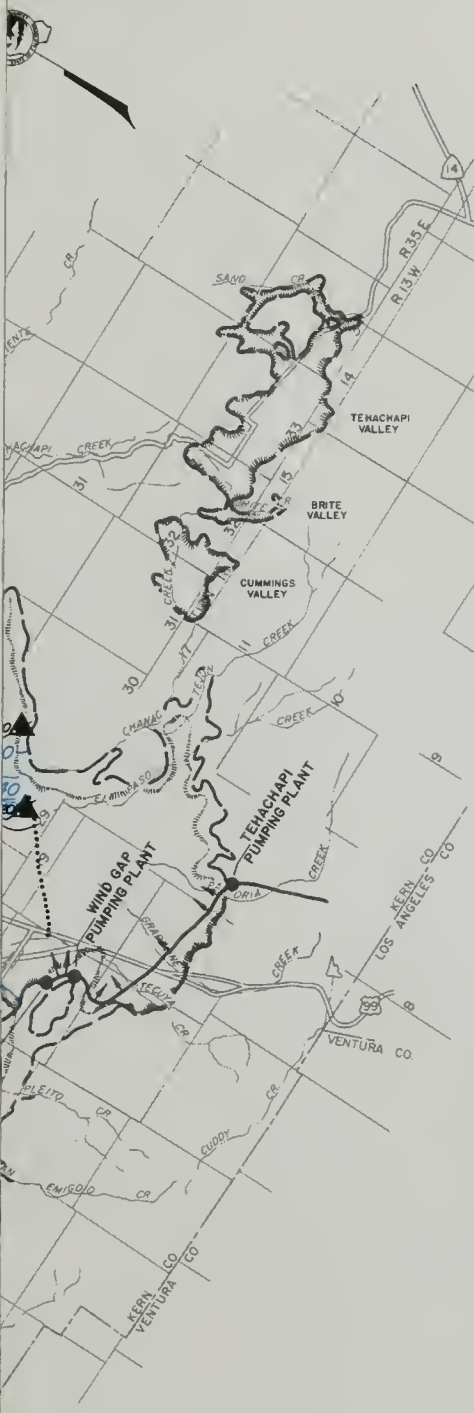
GROUND WATER AREA BOUNDARIES
GROUND WATER LEVEL FALL 1921
GROUND WATER LEVEL FALL 1951
GROUND WATER LEVEL SPRING 1972, UNCONFINED AQUIFER
GROUND WATER LEVEL SPRING 1972, PRESSURE SURFACE
GROUND WATER LEVEL PROFILE SECTION

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1972

MAP OF SELECTED GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY AND PROFILES ALONG SECTION A-A' SHOWING GROUND WATER LEVELS IN 1921, 1951 & 1972

SCALE OF MILES



EXPLANATION

-200 UNCONFINED WATER-TABLE CONTOUR
Lines of equal elevation of water in unconfined and semiconfined aquifers; dashed where inferred; contour interval 10,20, & 50 Feet

-200 PRESSURE-SURFACE CONTOUR
Lines of equal elevation of pressure surface in aquifers that are confined or semiconfined; dashed where inferred; contour interval 20 feet.

Ground water barrier

Foothill line

Bedrock line

California aqueduct and turnouts

2770 Due to insufficient data, only ground water elevations of these wells are shown

Note: Water level measurements south of township 13 and west of the trough of the valley were made in January 1972.

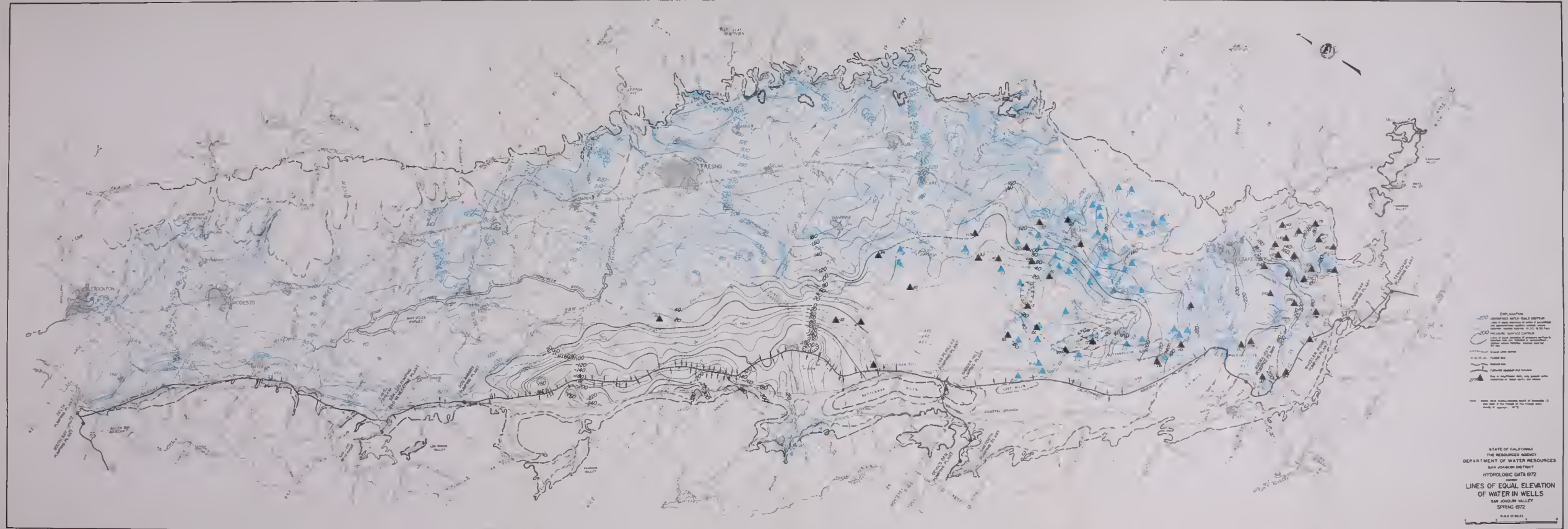
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DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1972

LINES OF EQUAL ELEVATION OF WATER IN WELLS

SAN JOAQUIN VALLEY
SPRING 1972

SCALE OF MILES
6 0 6 12


FRESNO
MODESTO
STOCKTON
EXPLANATION
STATE OF CALIFORNIA
THE RESOURCES AGENCY
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SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1972
LINES OF EQUAL ELEVATION
OF WATER IN WELLS
SAN JOAQUIN VALLEY
SPRING 1972

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